OBLON, SPIVAK, ET AL
DOCKET #: 202544US2
INV: Osamu KIZAKI, et al.
SHEET 1 OF 33

A-01006 FIGS. 1-31

FIG. 1

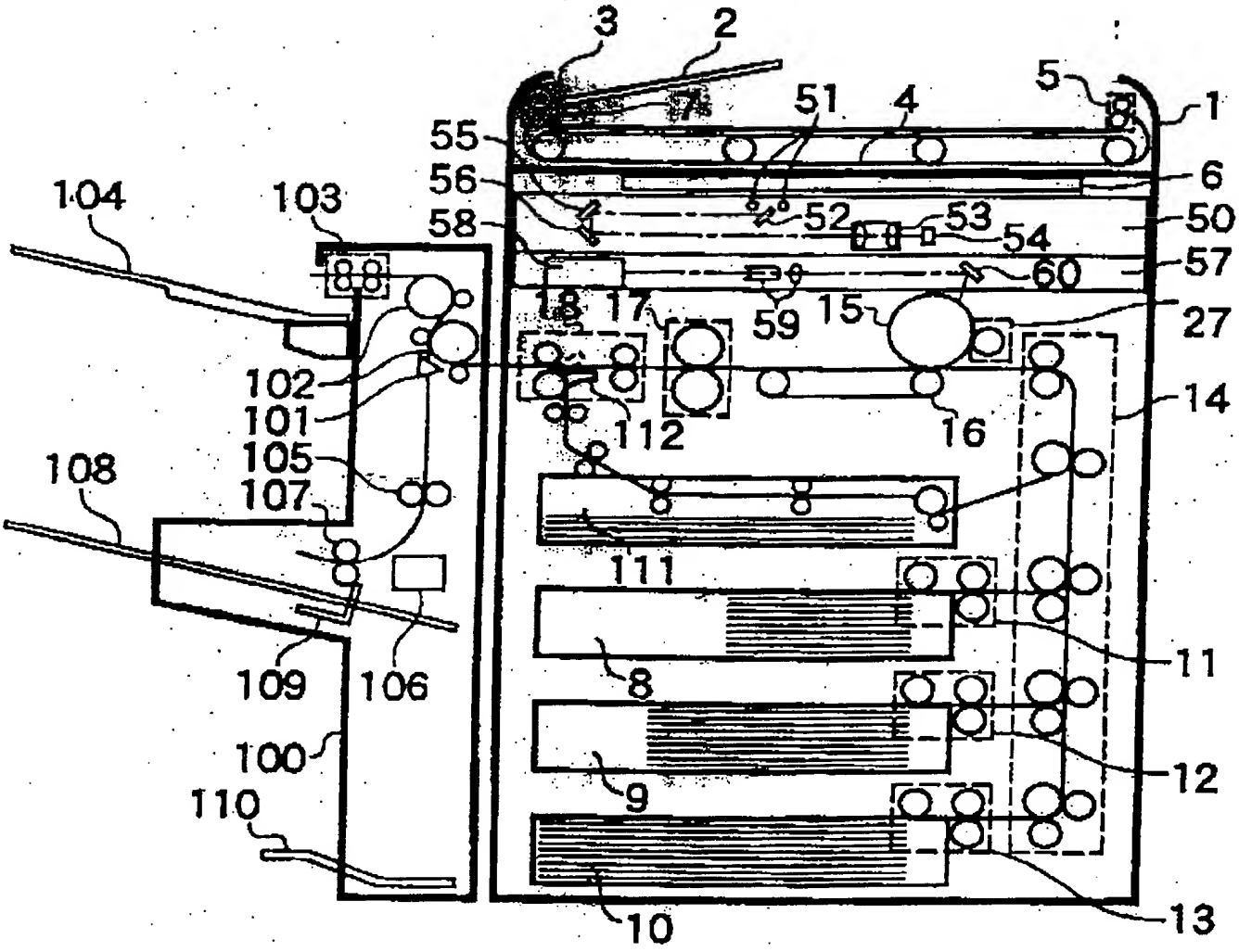


FIG. 2

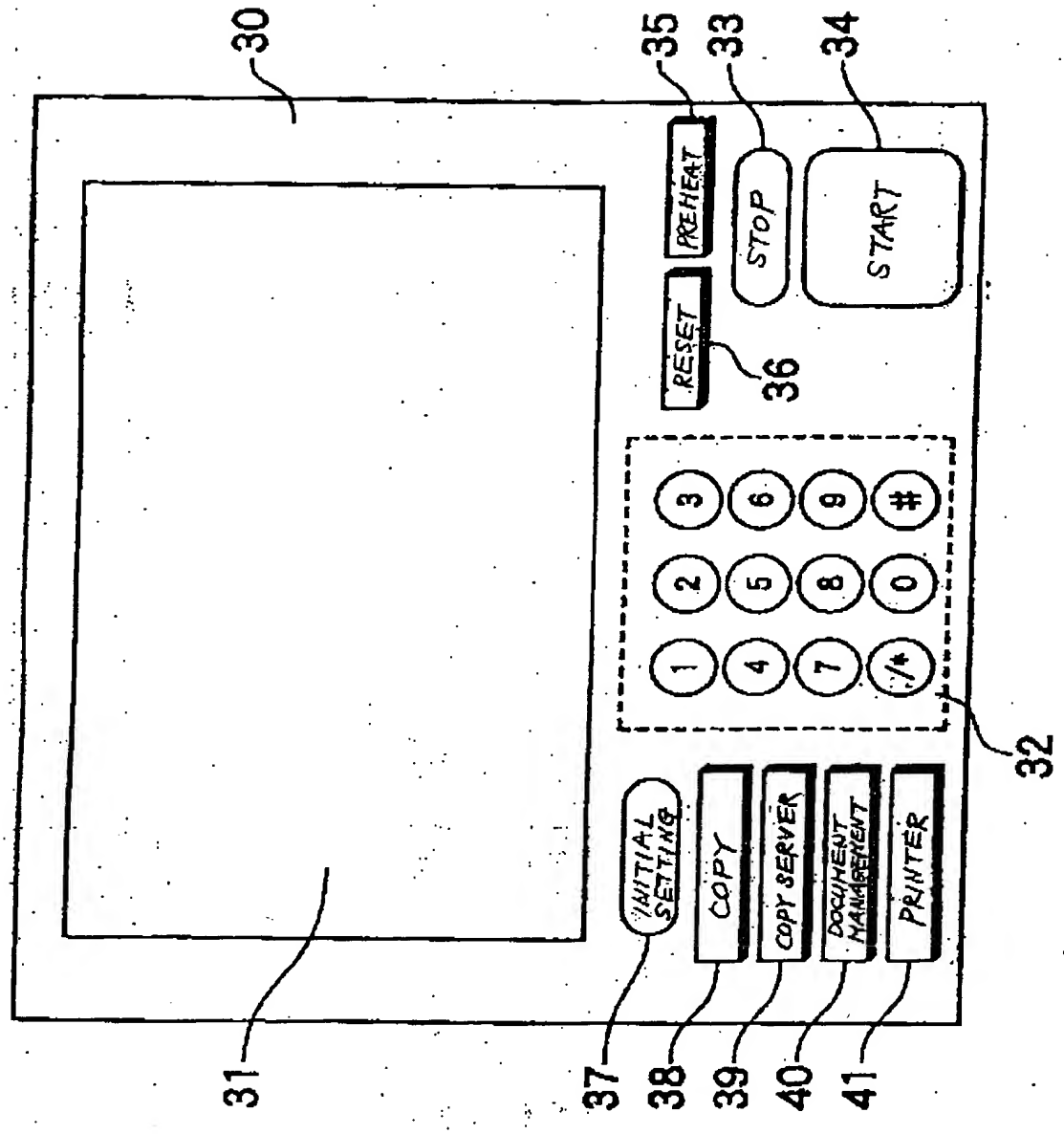

30
35
33
34
PREHEAT
STOP
START
RESET
36
3
6
9
#
2
5
8
0
1
4
7
*
32
INITIAL SETTING
COPY
COPY SERVER
DOCUMENT MANAGEMENT
PRINTER
31
37
38
39
40
41

FIG. 3

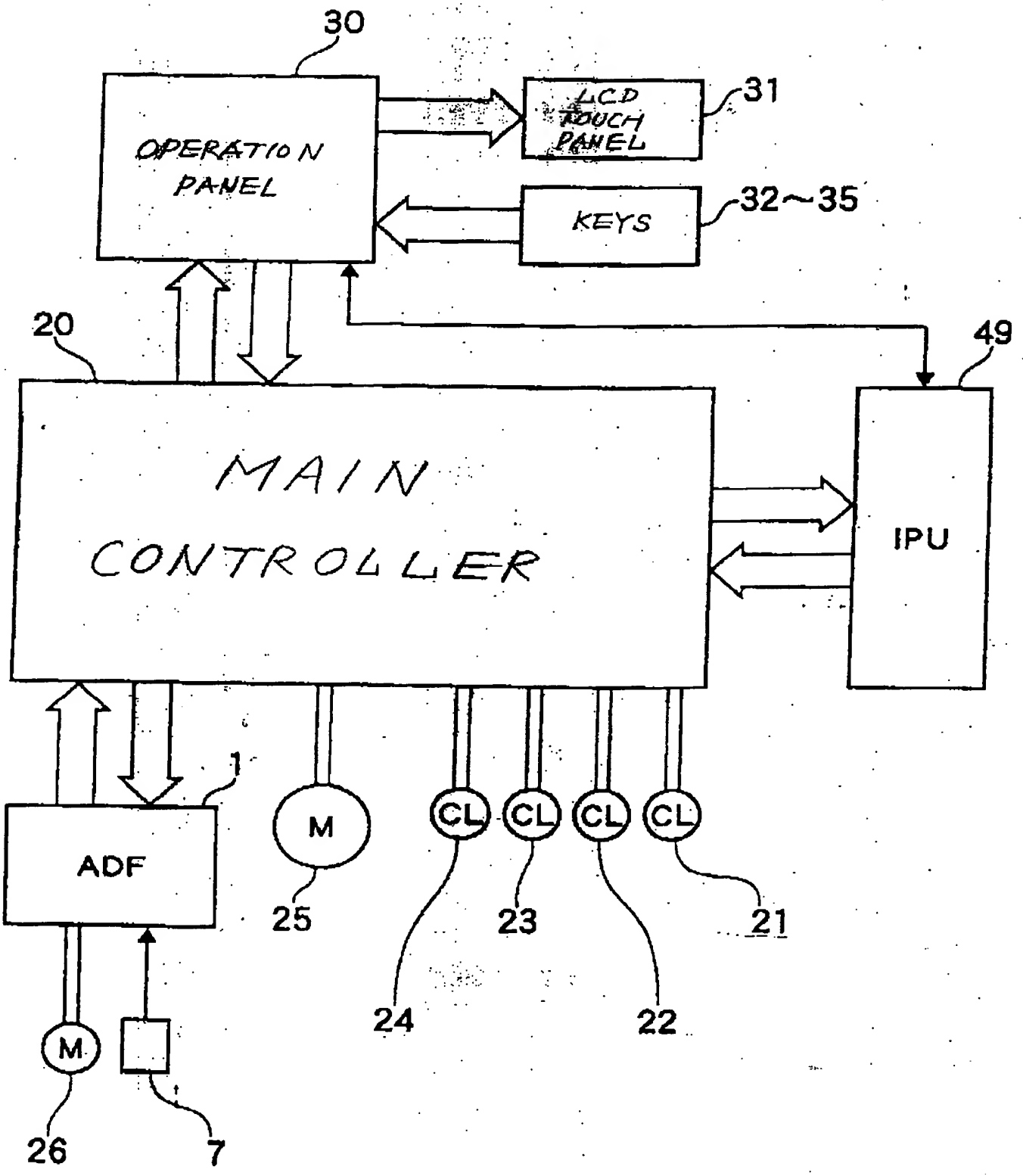
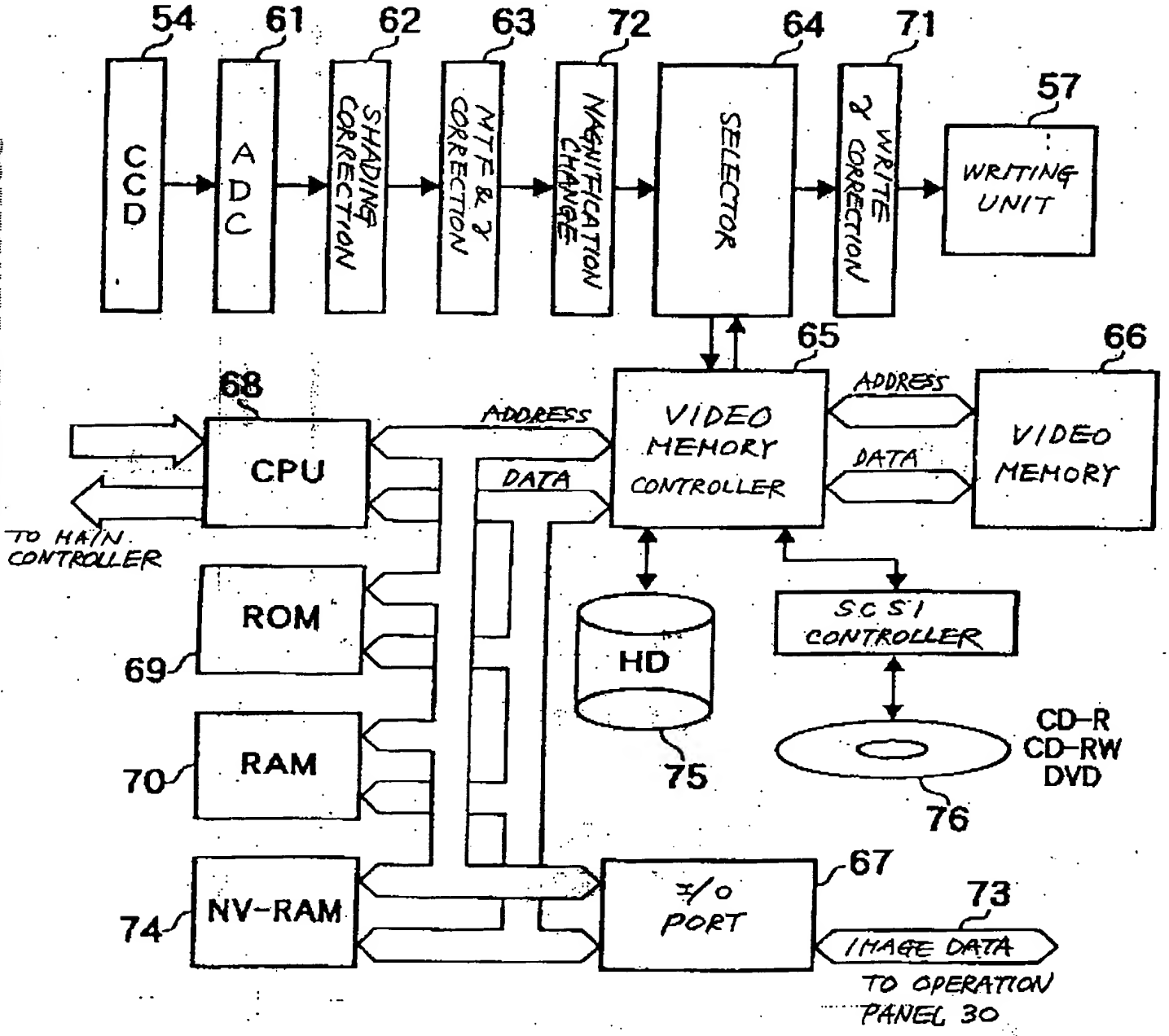

30
OPERATION PANEL
LCD TOUCH PANEL
31
KEYS
32~35
20
49
MAIN CONTROLLER
IPU
ADF
1
M
25
CL
CL
CL
CL
23
21
24
22
M
26
7

FIG. 4


54
CCD
61
A D C
62
SHADING CORRECTION
63
MTF & γ CORRECTION
72
MAGNIFICATION CHANGE
64
SELECTOR
71
WRITE γ CORRECTION
57
WRITING UNIT
65
VIDEO MEMORY CONTROLLER
66
VIDEO MEMORY
ADDRESS
DATA
68
CPU
ADDRESS
DATA
TO MAIN CONTROLLER
ROM
69
RAM
70
NV-RAM
74
HD
75
SCSI CONTROLLER
CD-R
CD-RW
DVD
76
I/O PORT
67
73
IMAGE DATA
TO OPERATION PANEL 30

T06210 "0470450

FIG. 5

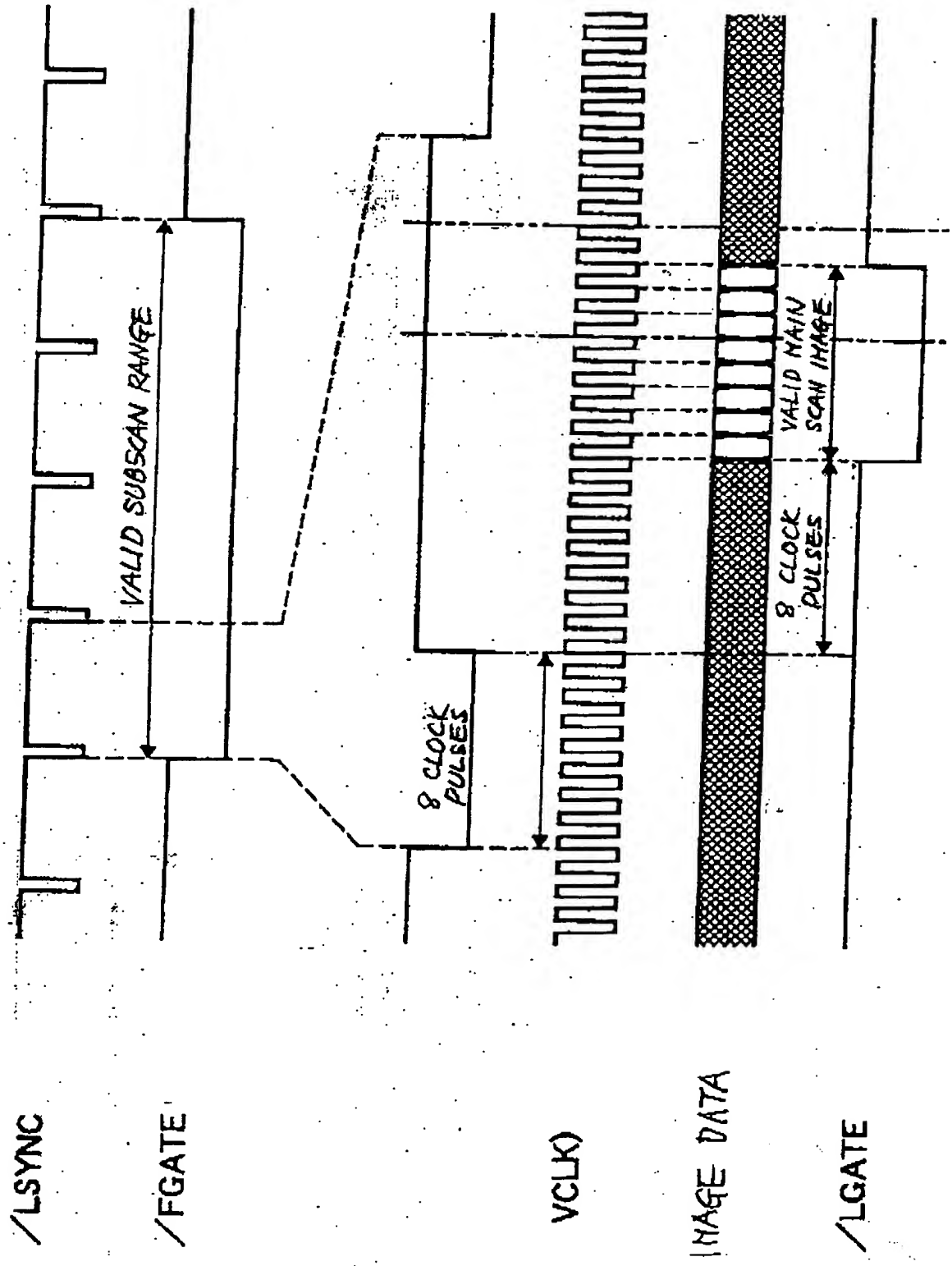


FIG. 6

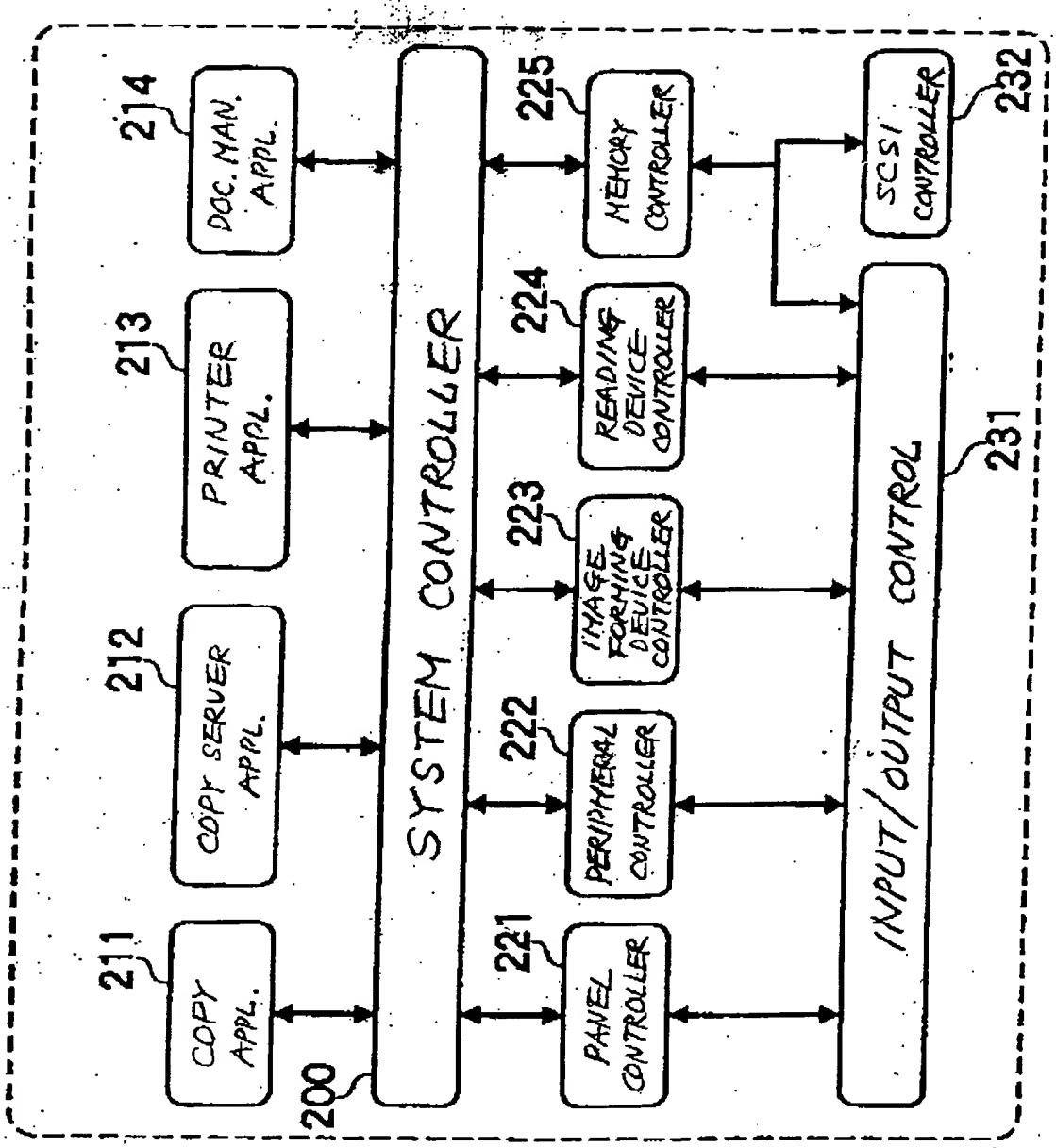

200
SYSTEM CONTROLLER
211
COPY APPL.
212
COPY SERVER APPL.
213
PRINTER APPL.
214
DOC. MAN. APPL.
221
PANEL CONTROLLER
222
PERIPHERAL CONTROLLER
223
IMAGE FORMING DEVICE CONTROLLER
224
READING DEVICE CONTROLLER
225
MEMORY CONTROLLER
231
INPUT/OUTPUT CONTROL
232
SCSI CONTROLLER

FIG. 7

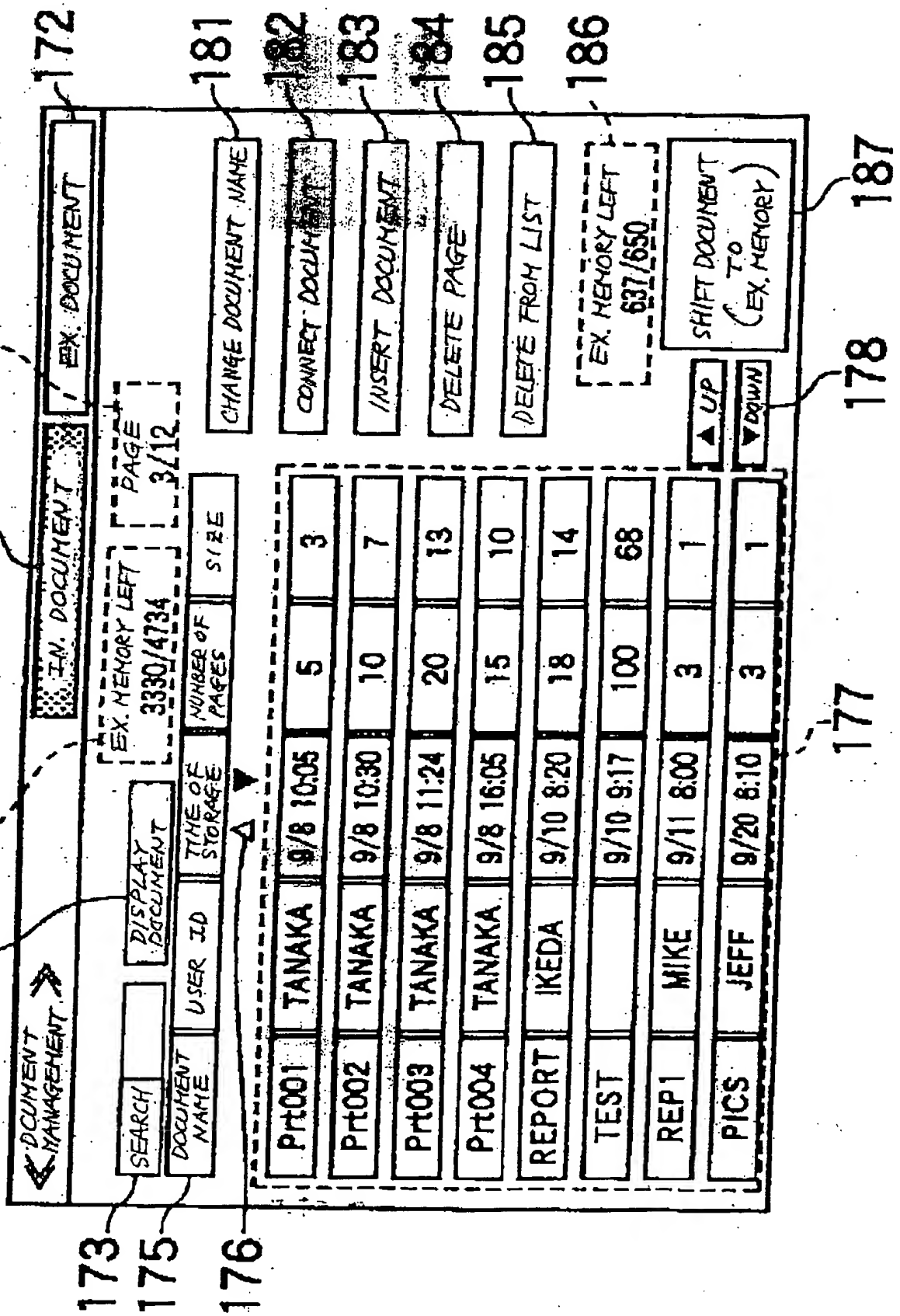
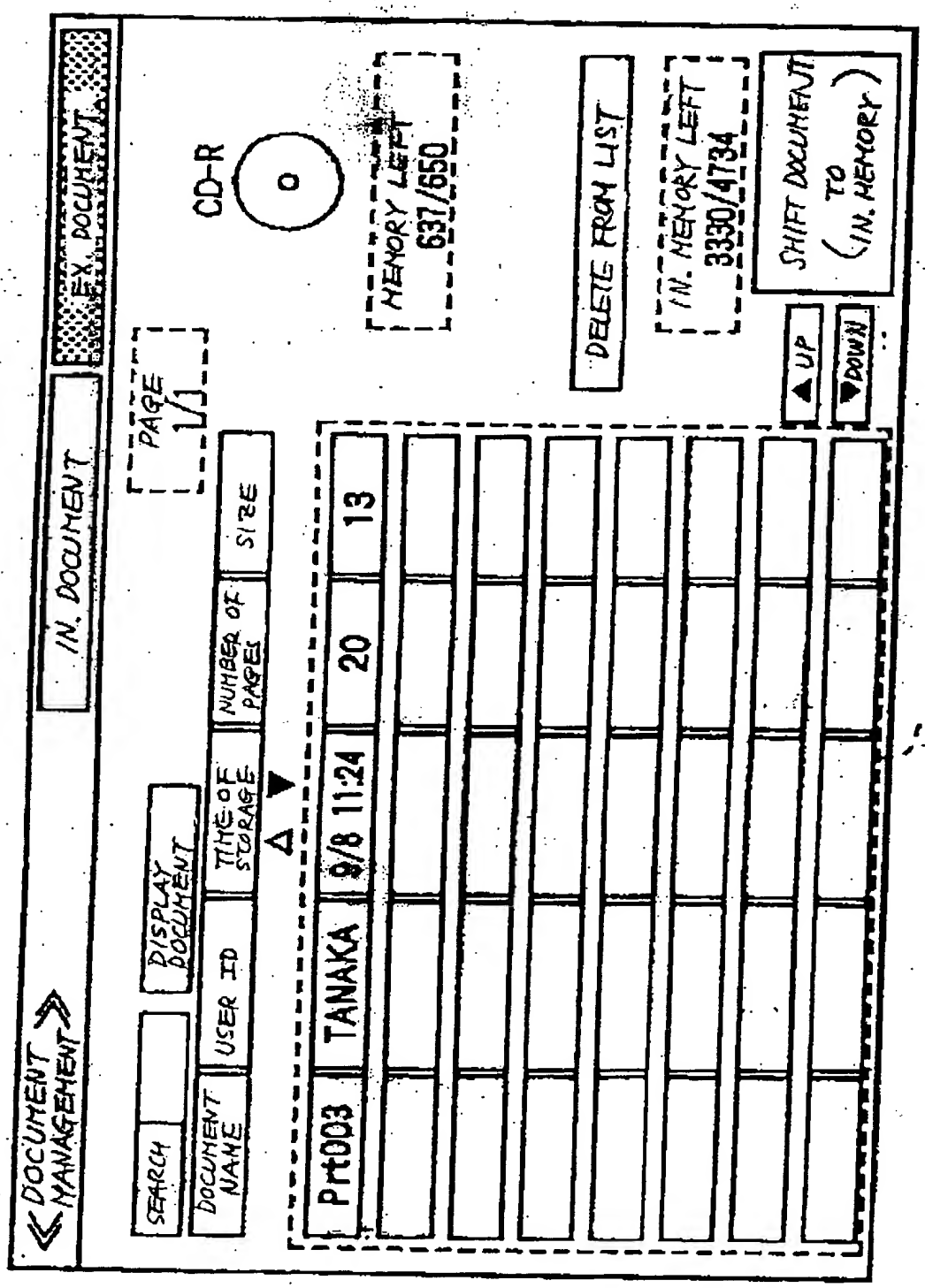
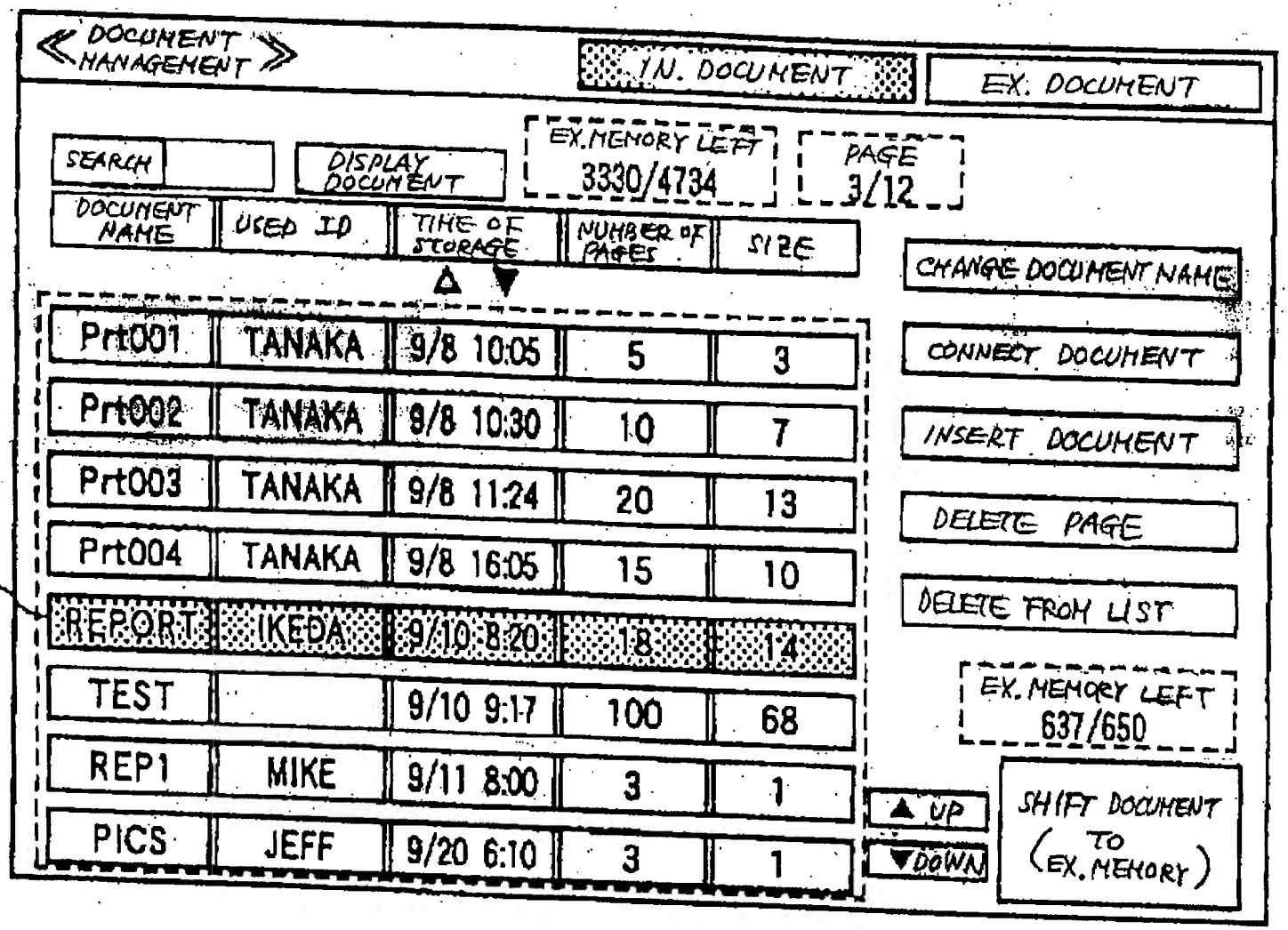

DOCUMENT MANAGEMENT
IN. DOCUMENT
EX. DOCUMENT
SEARCH
DISPLAY DOCUMENT
EX. MEMORY LEFT 3330/4734
PAGE 3/12
DOCUMENT NAME
USER ID
TIME OF STORAGE
NUMBER OF PAGES
SIZE
CHANGE DOCUMENT NAME
CONNECT DOCUMENT
INSERT DOCUMENT
DELETE PAGE
DELETE FROM LIST
EX. MEMORY LEFT 637/650
SHIFT DOCUMENT TO (EX. MEMORY)
UP
DOWN
Prt001 TANAKA 9/8 10:05 5 3
Prt002 TANAKA 9/8 10:30 10 7
Prt003 TANAKA 9/8 11:24 20 13
Prt004 TANAKA 9/8 16:05 15 10
REPORT IKEDA 9/10 8:20 18 14
TEST 9/10 9:17 100 68
REP1 MIKE 9/11 8:00 3 1
PICS JEFF 9/20 8:10 3 1
172
180
171
181
182
183
184
185
186
187
178
174
179
177
173
175
176

FIG. 8


DOCUMENT MANAGEMENT
IN. DOCUMENT
EX. DOCUMENT
SEARCH
DOCUMENT NAME
USER ID
DISPLAY DOCUMENT
TIME OF STORAGE
NUMBER OF PAGES
SIZE
PAGE 1/1
CD-R
0
MEMORY LEFT 637/650
DELETE FROM LIST
IN. MEMORY LEFT 3330/4734
SHIFT DOCUMENT TO (IN. MEMORY)
UP
DOWN
Prt003
TANAKA
9/8 11:24
20
13
191

T0627T0" 07407260

FIG. 9



OBLON, SPIVAK, ET AL
DOCKET #: 202544US2
INV: Osamu KIZAKI, et al.
SHEET 9 OF 33

FIG. 10

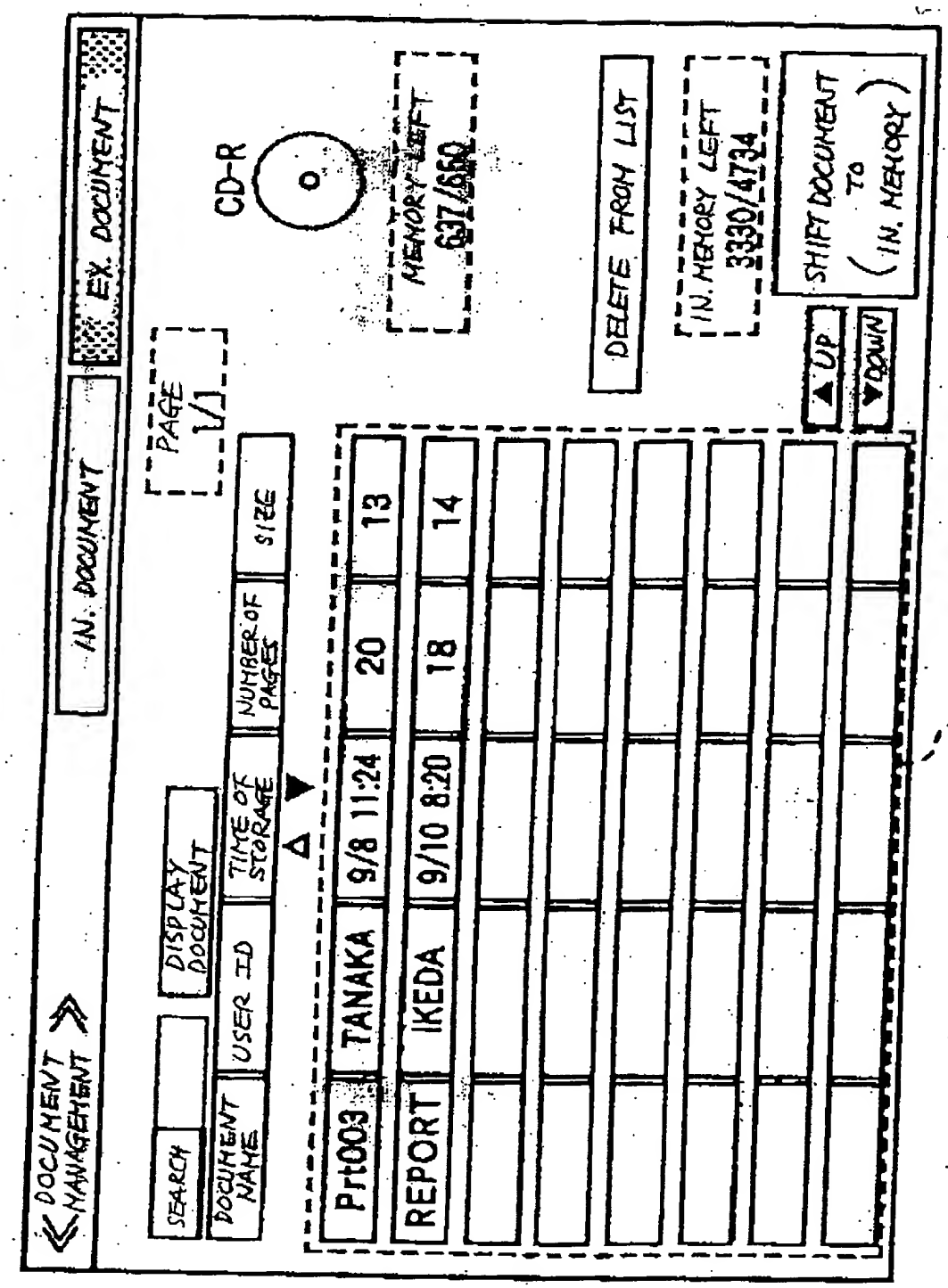
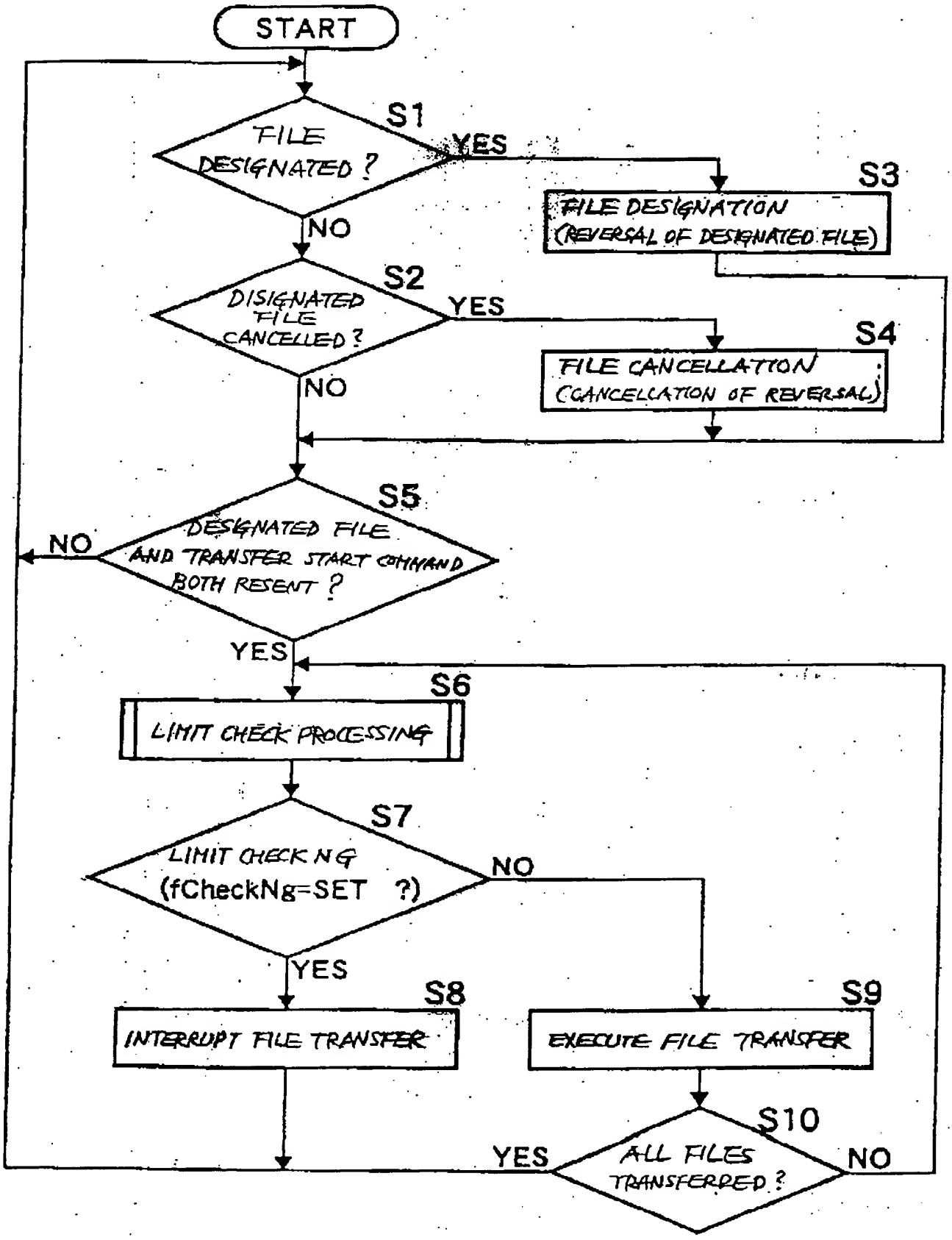

DOCUMENT MANAGEMENT
IN. DOCUMENT
EX. DOCUMENT
SEARCH
DOCUMENT NAME
USER ID
DISPLAY DOCUMENT
TIME OF STORAGE
NUMBER OF PAGES
SIZE
PAGE 1/1
CD-R
MEMORY LEFT 637/650
DELETE FROM LIST
IN. MEMORY LEFT 3330/4734
SHIFT DOCUMENT TO (IN. MEMORY)
UP
DOWN
Prt003 TANAKA 9/8 11:24 20 13
REPORT IKEDA 9/10 8:20 18 14
198

FIG. 11



EP 2 270 650 A1

FIG. 12

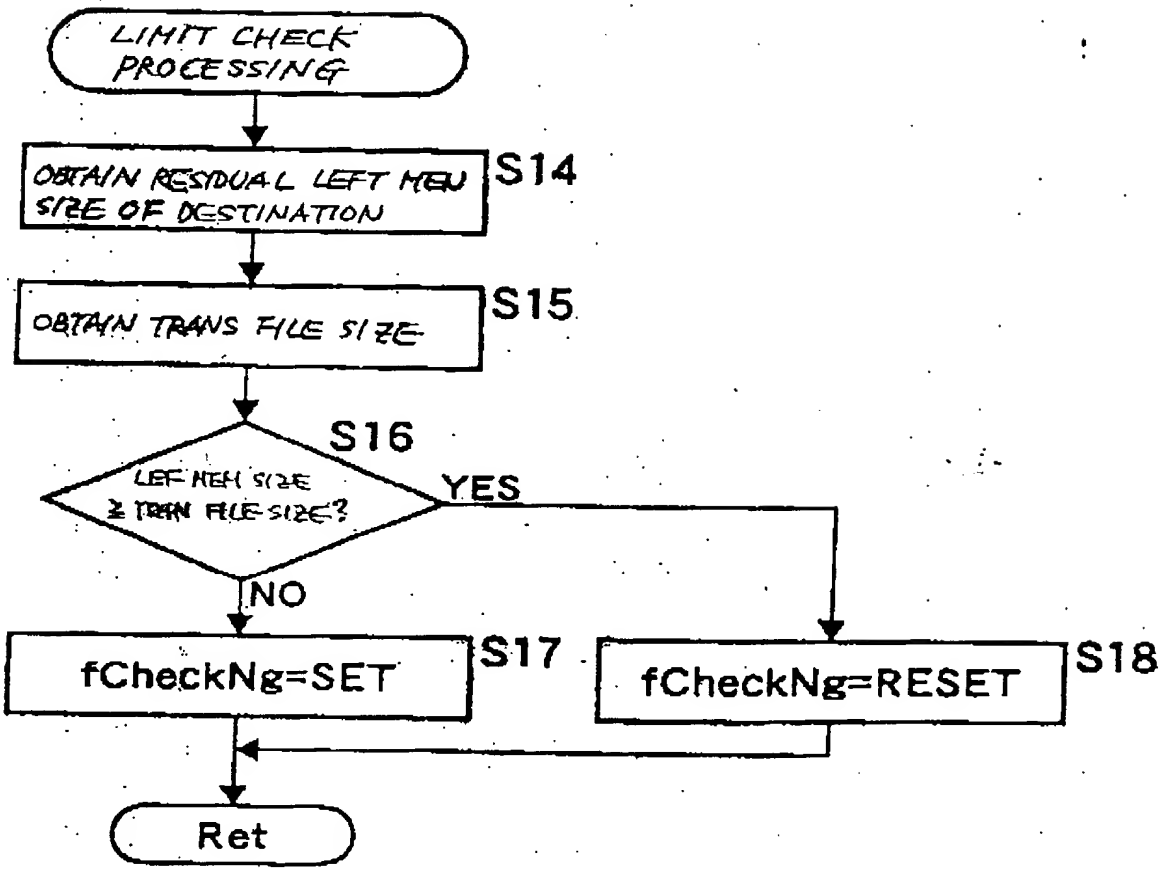

LIMIT CHECK PROCESSING
OBTAIN RESIDUAL LEFT MEM SIZE OF DESTINATION
S14
OBTAIN TRANS FILE SIZE
S15
S16
LEFT MEM SIZE ≥ TRANS FILE SIZE?
YES
NO
fCheckNg=SET
S17
fCheckNg=RESET
S18
Ret

FIG. 13

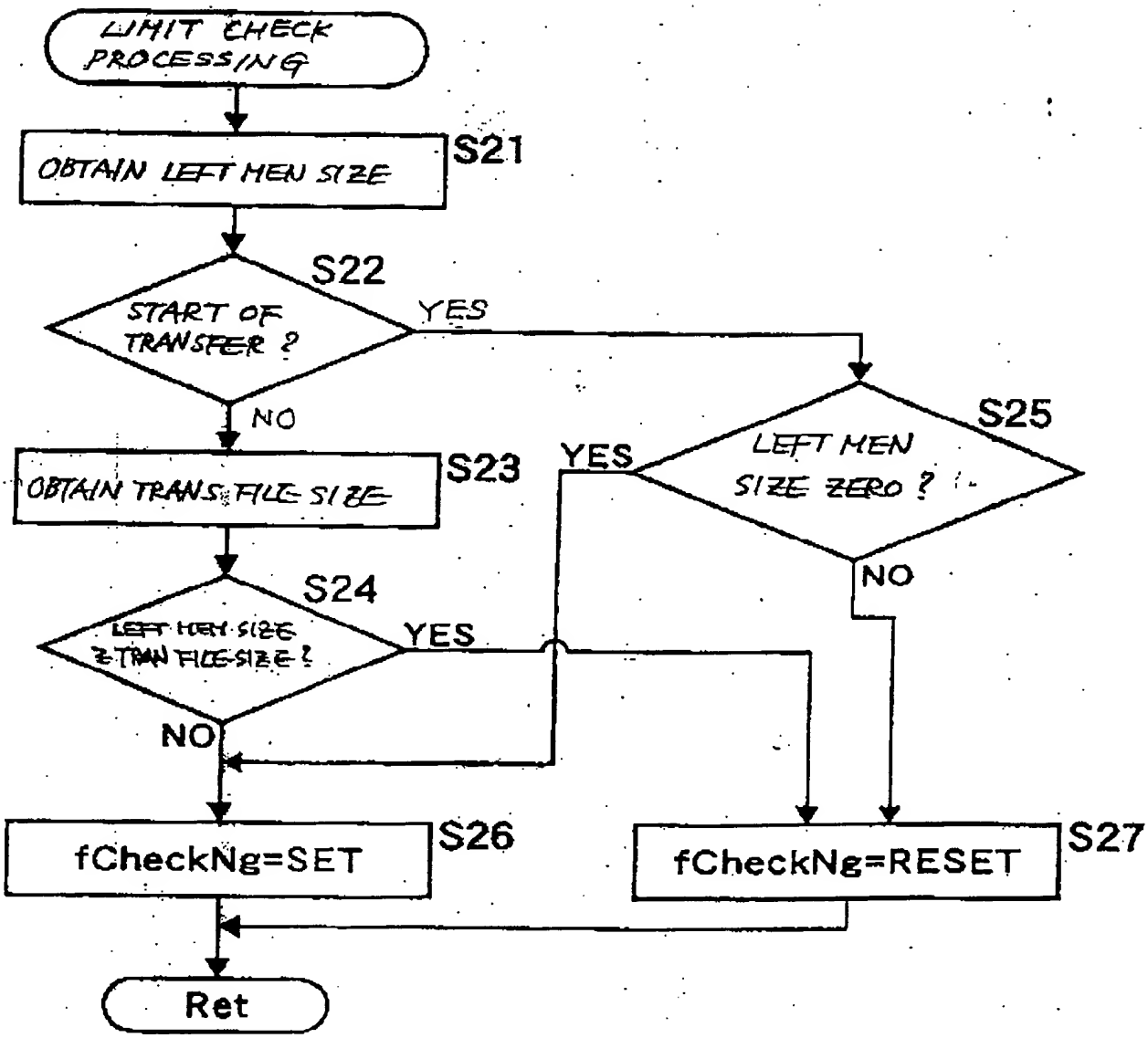
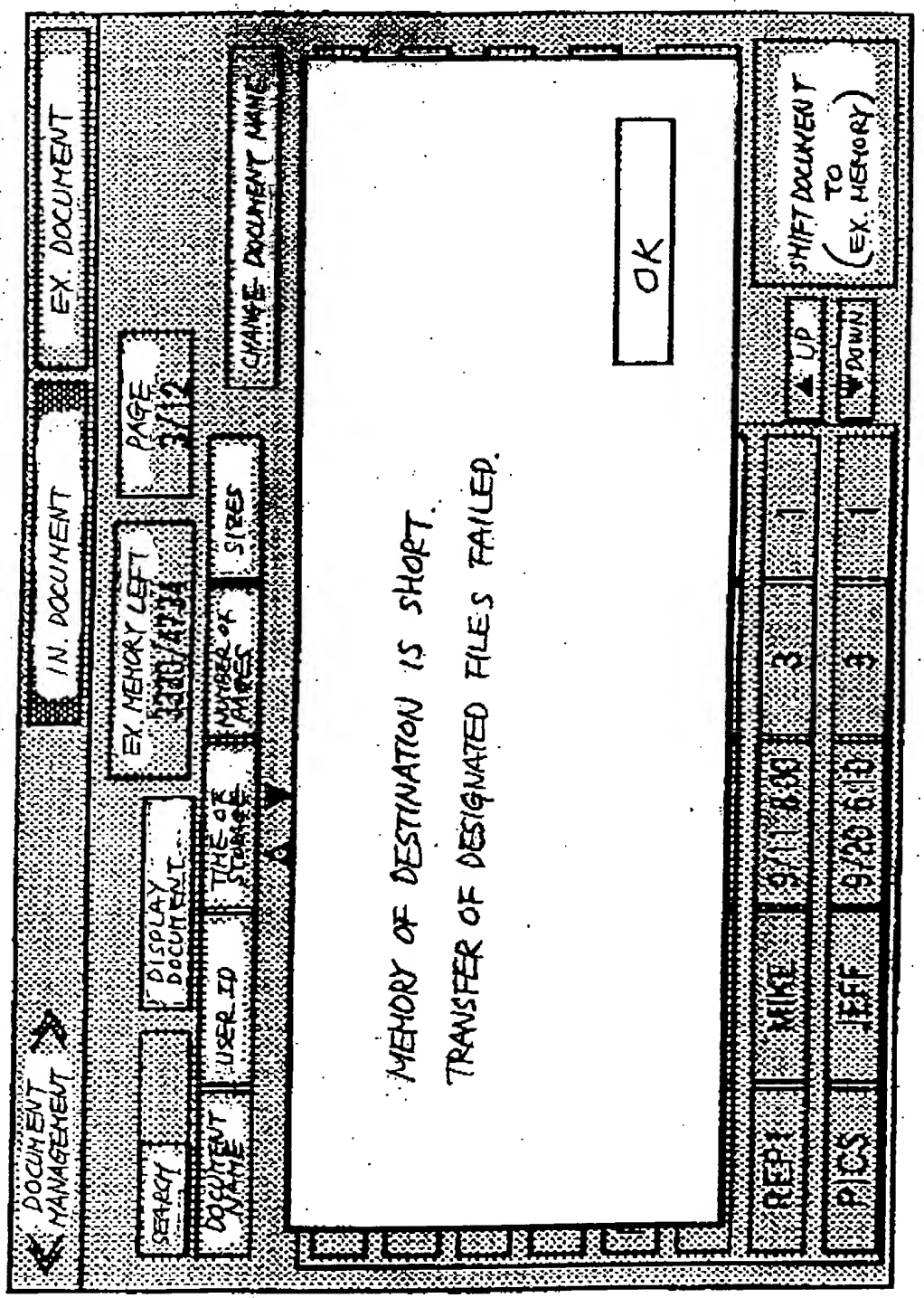
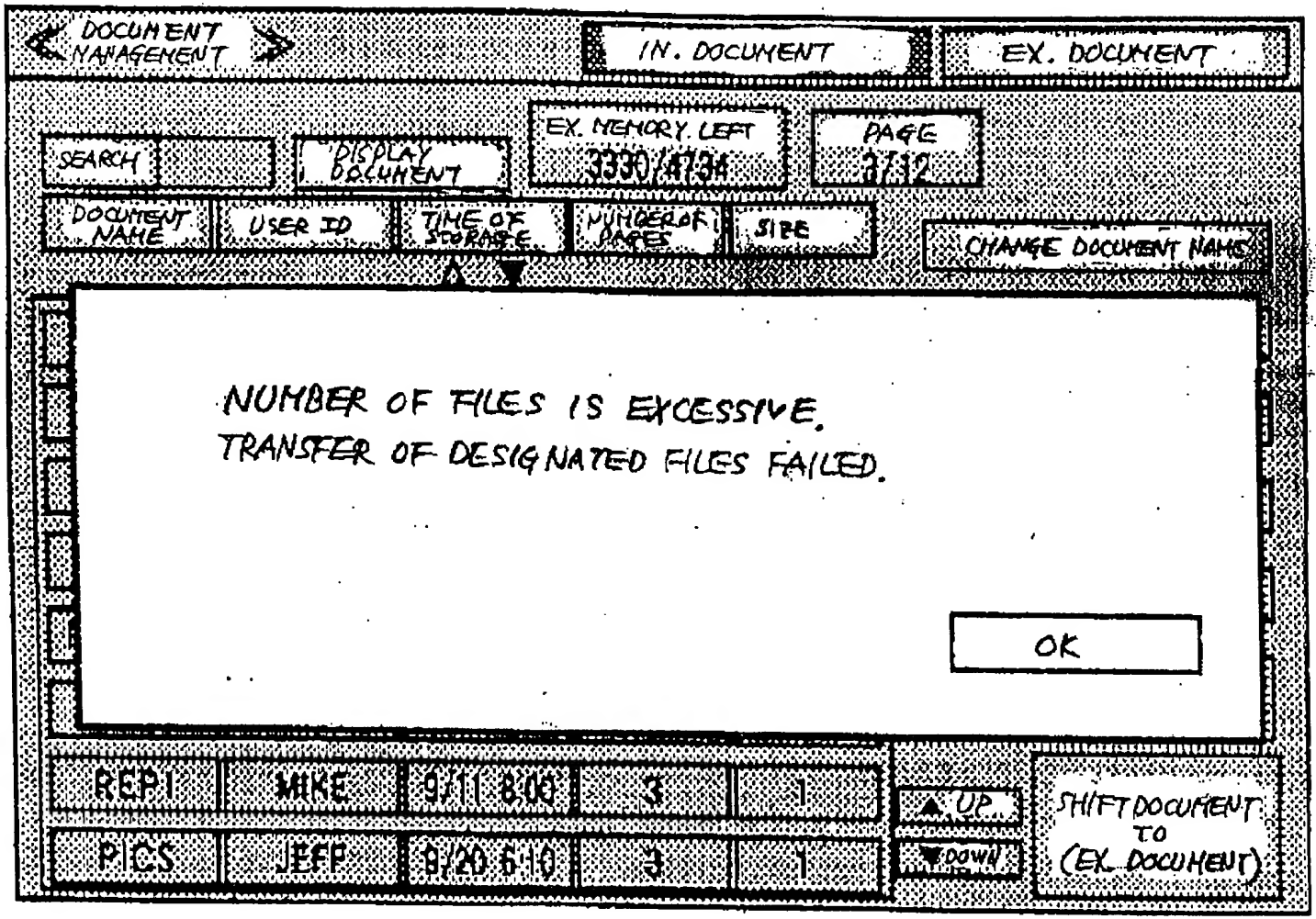

LIMIT CHECK PROCESSING
OBTAIN LEFT MEN SIZE
S21
S22
START OF TRANSFER ?
YES
NO
OBTAIN TRANS. FILE SIZE
S23
S24
LEFT MEN SIZE ≥ TRAN FILE SIZE ?
YES
NO
S25
LEFT MEN SIZE ZERO ?
YES
NO
fCheckNg=SET
S26
fCheckNg=RESET
S27
Ret

FIG. 14A


DOCUMENT MANAGEMENT
IN. DOCUMENT
EX. DOCUMENT
SEARCH
DISPLAY DOCUMENT
USER ID
DOCUMENT NAME
TIME OF STORAGE
NUMBER OF PAGES
SIZES
EX. MEMORY LEFT
PAGE
CHANGE DOCUMENT NAME
MEMORY OF DESTINATION IS SHORT.
TRANSFER OF DESIGNATED FILES FAILED.
OK
SHIFT DOCUMENT TO (EX. MEMORY)
UP
DOWN
REP1
MIKE
PICS
JEFF

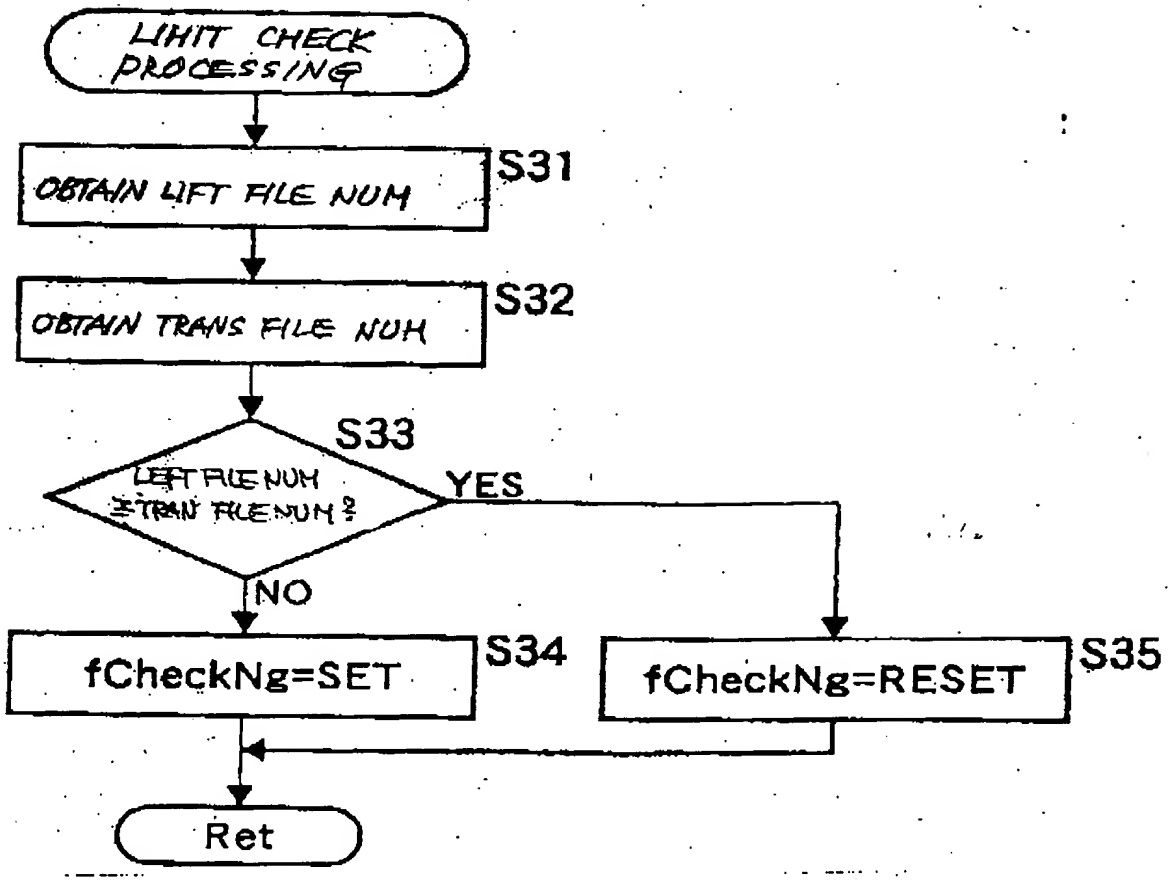
T06270 02402760

FIG.14B



OBLON, SPIVAK, ET AL
DOCKET #: 202544US2
INV: Osamu KIZAKI, et al.
SHEET 15 OF 33

FIG. 15



09/704,704 - 02/26/04

FIG. 16

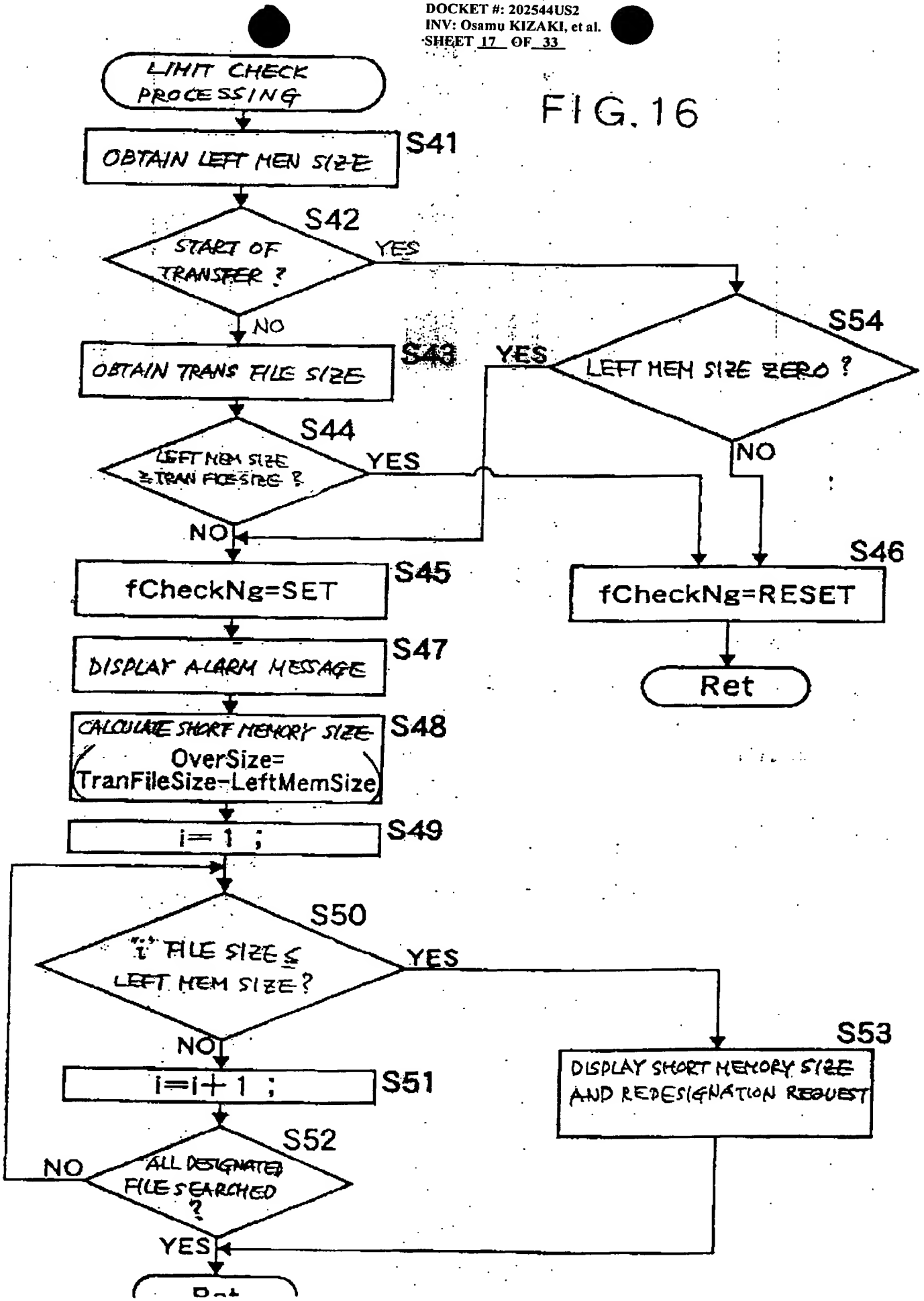

LIMIT CHECK PROCESSING
OBTAIN LEFT MEM SIZE
S41
START OF TRANSFER ?
S42
YES
NO
OBTAIN TRANS FILE SIZE
S43
LEFT MEM SIZE ≥ TRAN FILE SIZE ?
S44
YES
NO
LEFT MEM SIZE ZERO ?
S54
YES
NO
fCheckNg=SET
S45
fCheckNg=RESET
S46
DISPLAY ALARM MESSAGE
S47
CALCULATE SHORT MEMORY SIZE
OverSize=
TranFileSize-LeftMemSize
S48
i=1 ;
S49
"i" FILE SIZE ≤ LEFT MEM SIZE ?
S50
YES
NO
i=i+1 ;
S51
ALL DESIGNATED FILE SEARCHED ?
S52
NO
YES
DISPLAY SHORT MEMORY SIZE AND REDESIGNATION REQUEST
S53
Ret

FIG.17

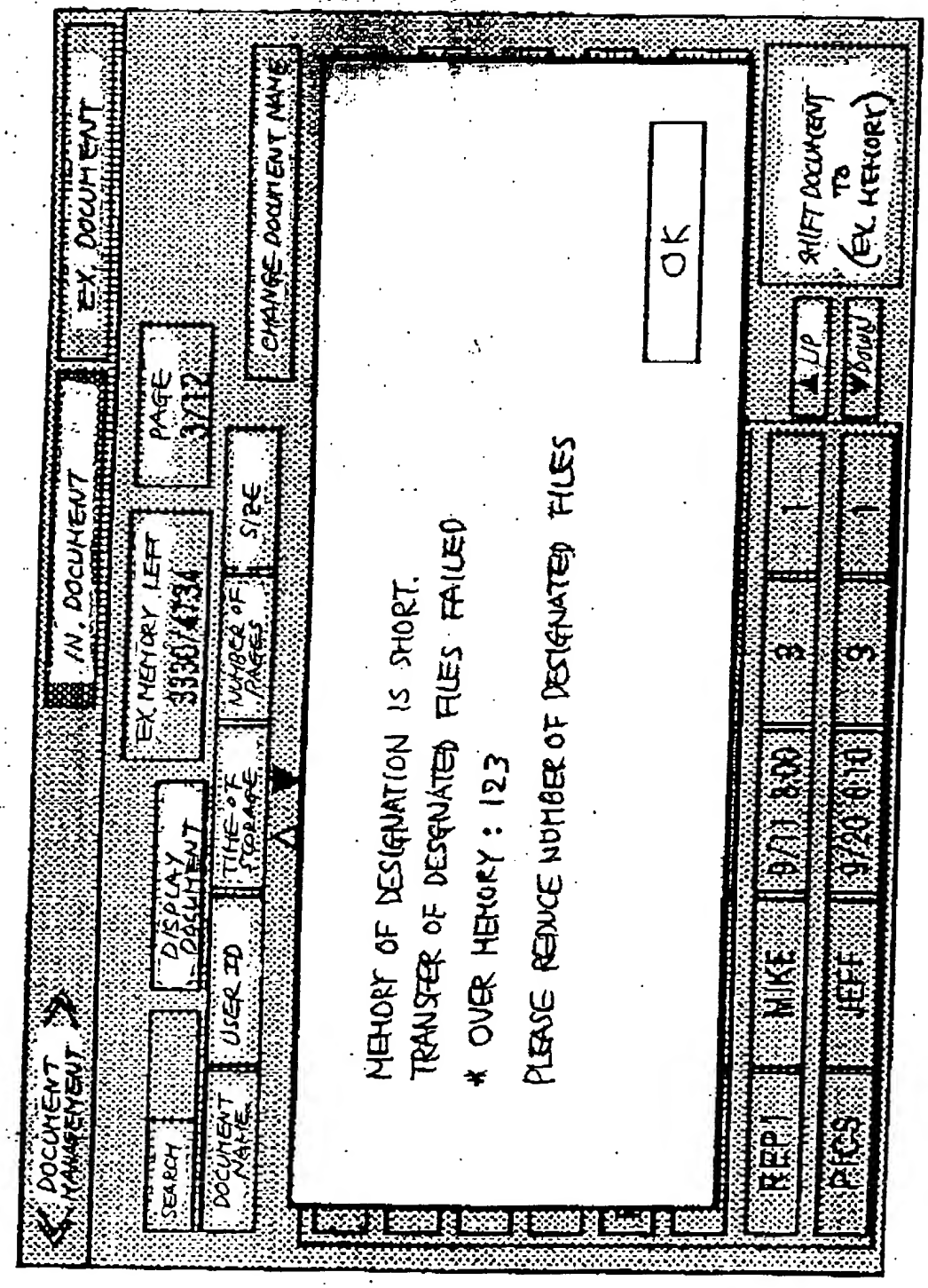


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FIG. 18

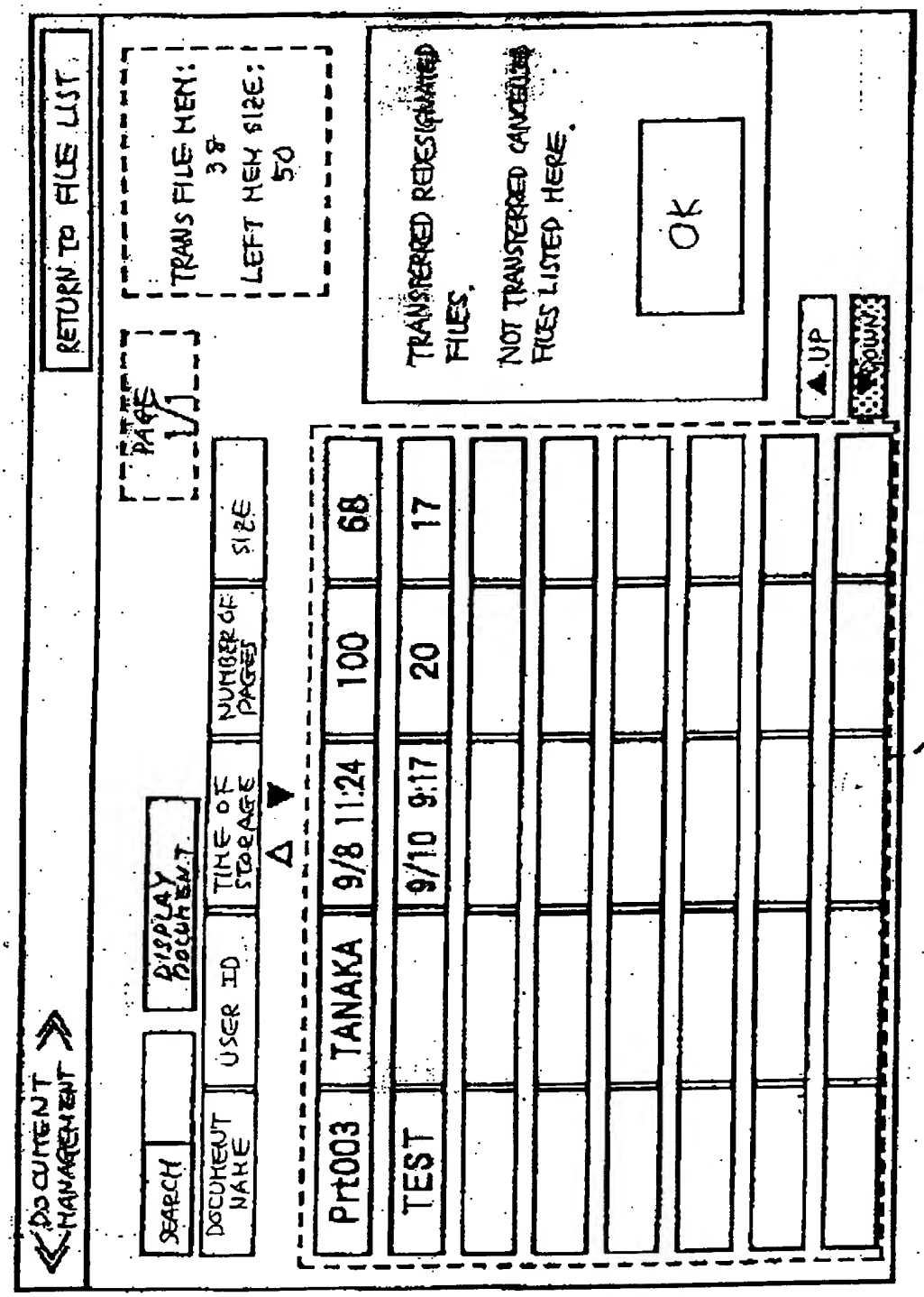
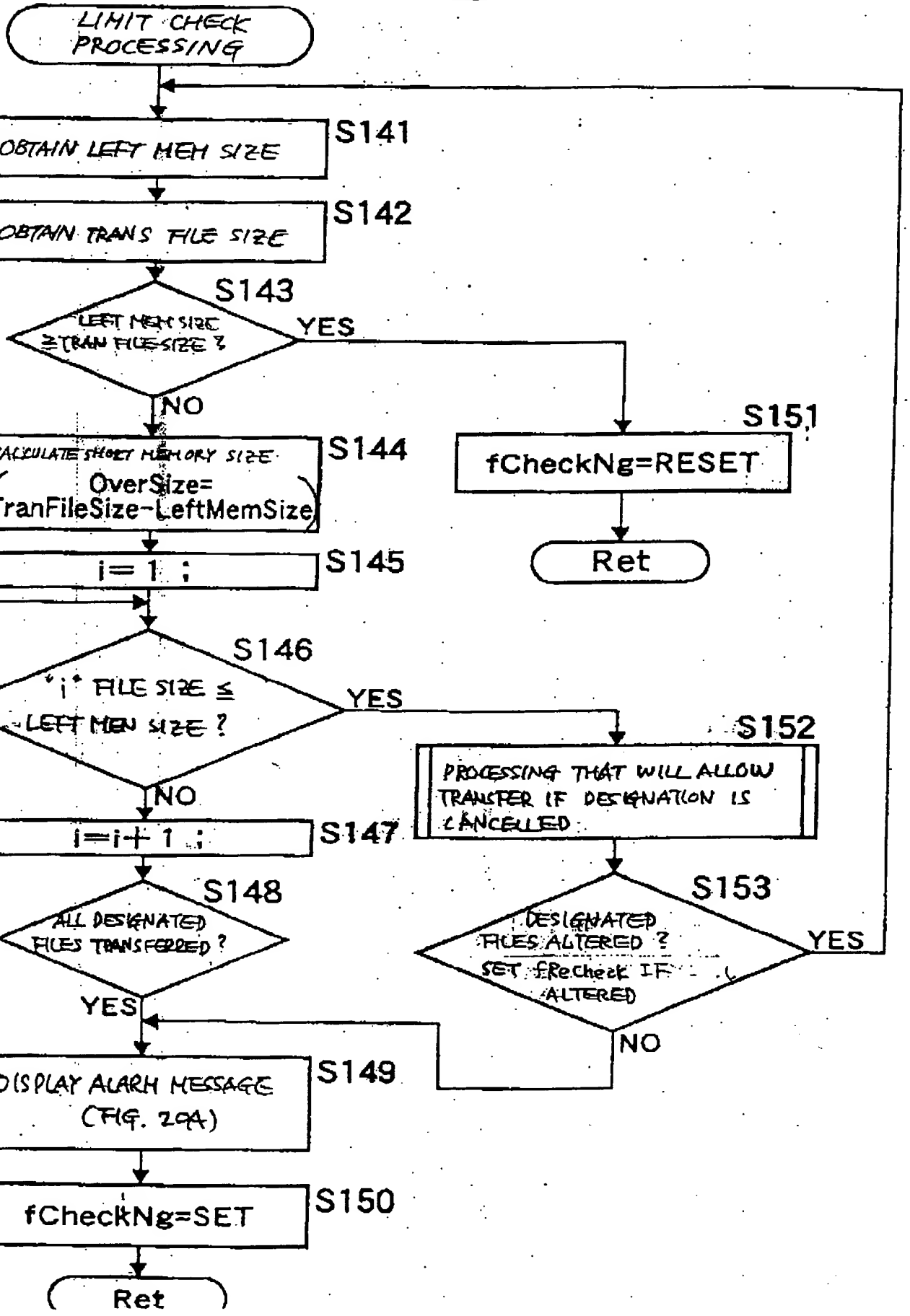

DOCUMENT MANAGEMENT
RETURN TO FILE LIST
SEARCH
DISPLAY DOCUMENT
PAGE 1/1
TRANS FILE NUM: 38
LEFT NUM SIZE: 50
DOCUMENT NAME
USER ID
TIME OF STORAGE
NUMBER OF PAGES
SIZE
Prt003
TANAKA
9/8 11:24
100
68
TEST
9/10 9:17
20
17
TRANSFERRED FILES.
NOT TRANSFERRED CANCELLED FILES LISTED HERE.
OK
▲UP
▼DOWN
191

FIG. 19



EP 0 621 530 A2

FIG. 20A

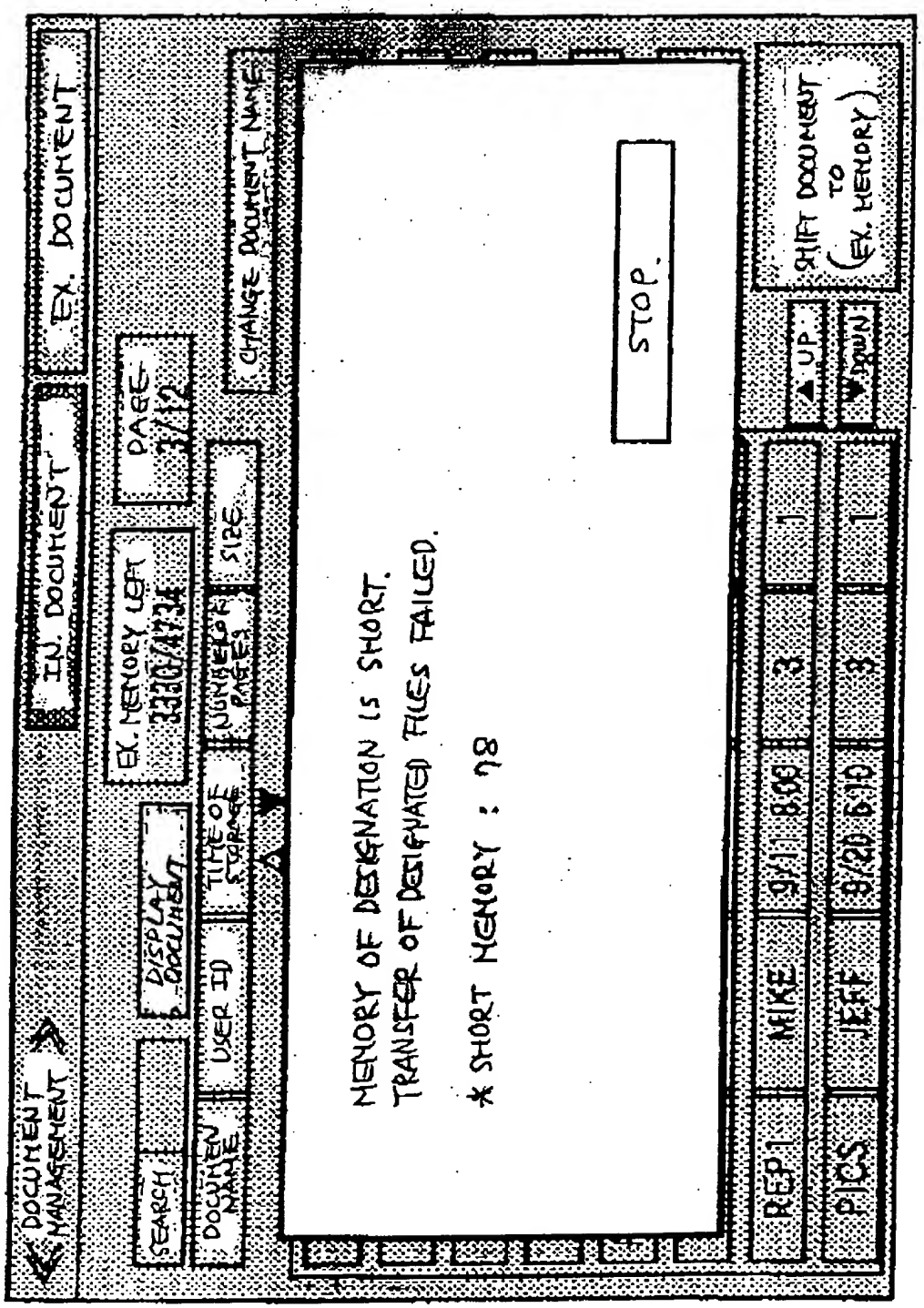

DOCUMENT MANAGEMENT
EX. DOCUMENT
IN. DOCUMENT
EX. MEMORY LEFT
3310/4734
PAGE
3/12
CHANGE DOCUMENT NAME
SEARCH
DISPLAY DOCUMENT
DOCUMEN NAME
USER ID
TIME OF STORAGE
NUMBER OF PAGES
SIZE
STOP
SHIFT DOCUMENT TO (EX. MEMORY)
UP
DOWN
REP
MIKE
9/11 8:03
3
1
PICS
JEFF
9/20 6:10
3
1
MEMORY OF DESIGNATION IS SHORT.
TRANSFER OF DESIGNATED FILES FAILED.
* SHORT MEMORY : 78

FIG. 20B

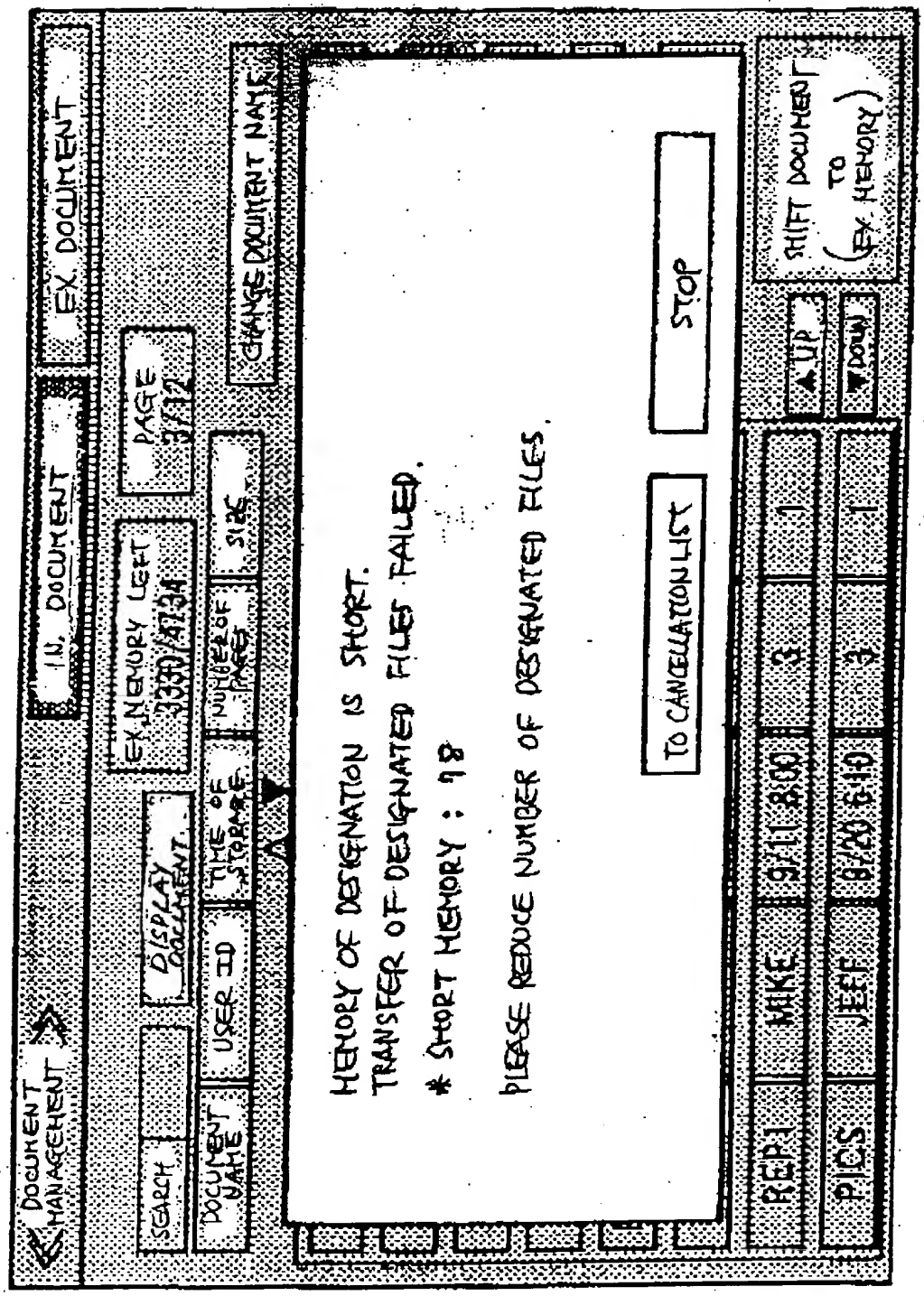
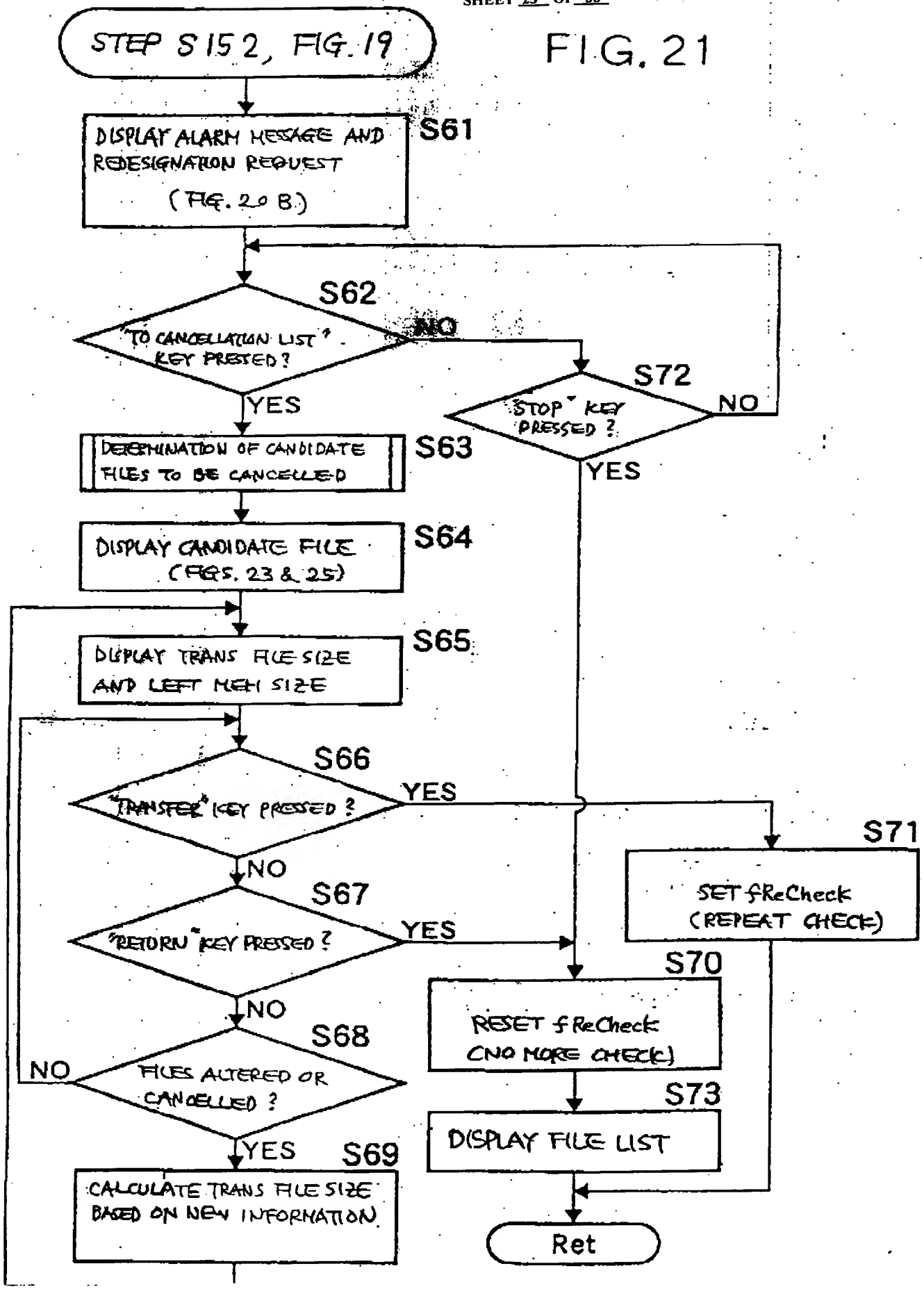

DOCUMENT MANAGEMENT
IN. DOCUMENT
EX. DOCUMENT
SEARCH
DISPLAY DOCUMENT
EX. MEMORY LEFT 3330/4134
PAGE 3/12
CHANGE DOCUMENT NAME
DOCUMENT NAME
USER ID
TIME OF STORAGE
NUMBER OF PAGE
SIZE
MEMORY OF DESIGNATION IS SHORT.
TRANSFER OF DESIGNATED FILES FAILED.
* SHORT MEMORY : 18
PLEASE REDUCE NUMBER OF DESIGNATED FILES.
STOP
TO CANCELLATION LIST
SHIFT DOCUMENT TO (EX MEMORY)
UP
DOWN
REP.1
MIKE
9/11 8:00
3
1
PICS
JEFF
8/20 9:10
3
1

FIG. 21



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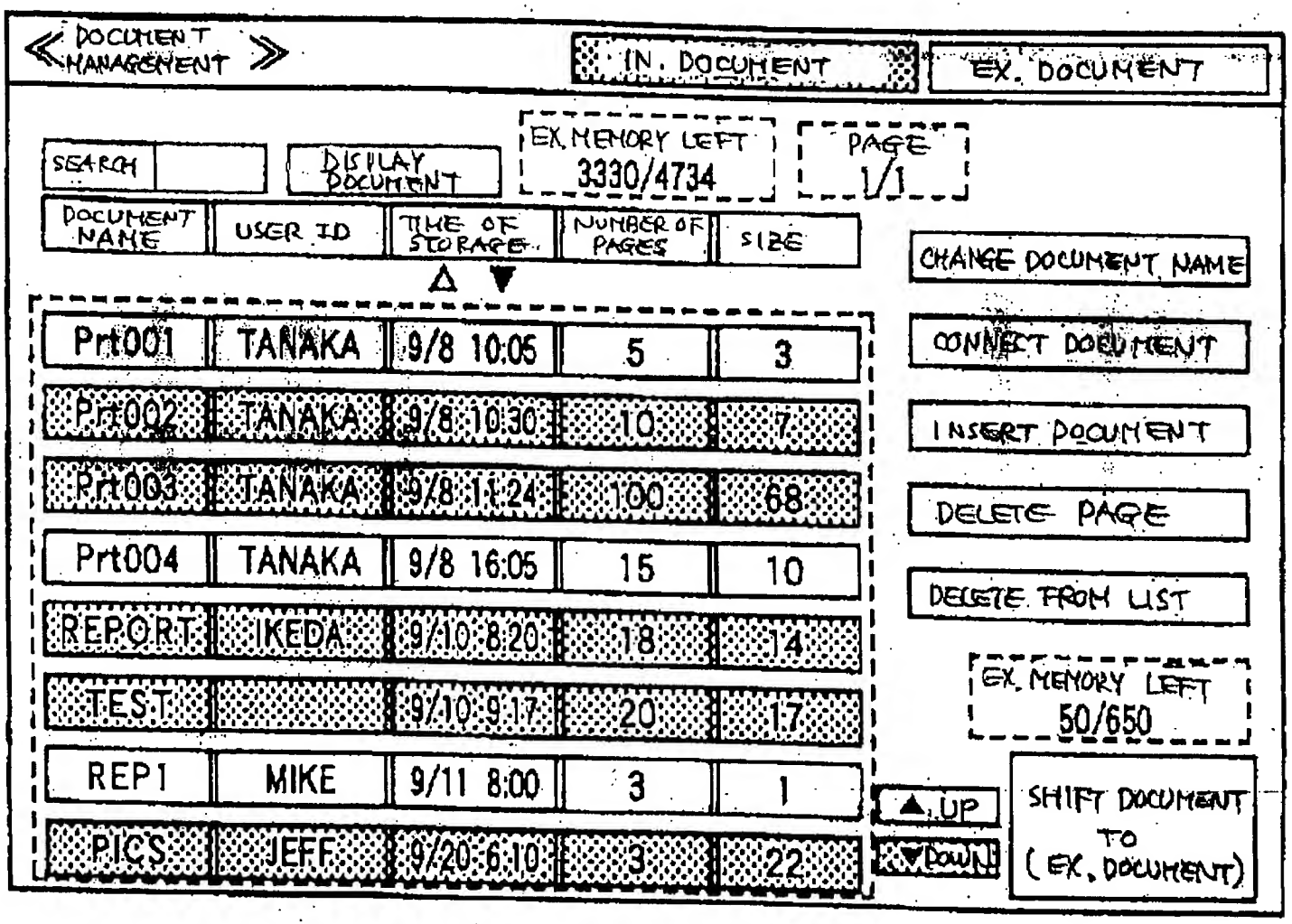
T06210" 02h02760

FIG. 22



OBLON, SPIVAK, ET AL
DOCKET #: 202544US2
INV: Osamu KIZAKI, et al.
SHEET 24 OF 33

FIG. 23

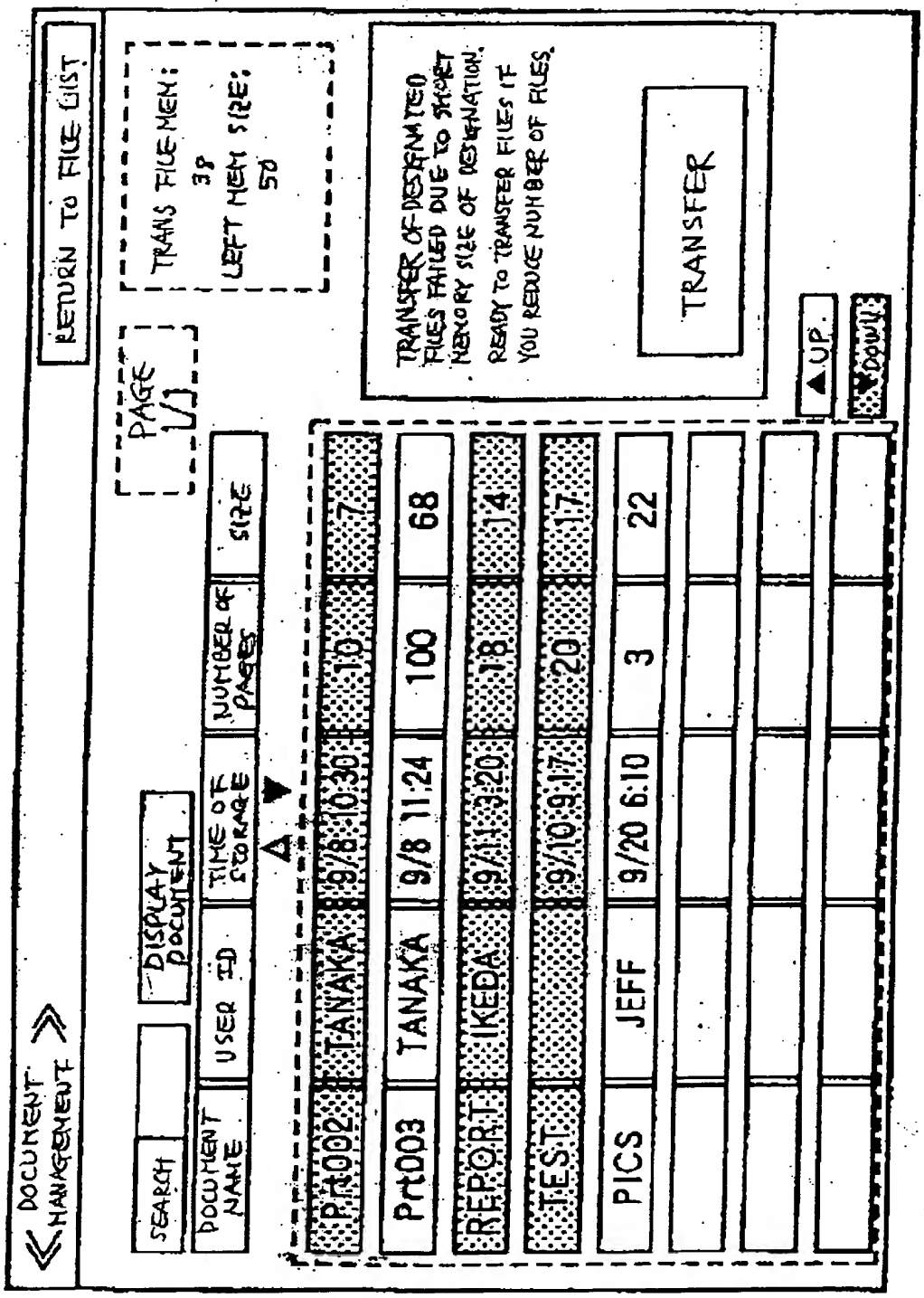
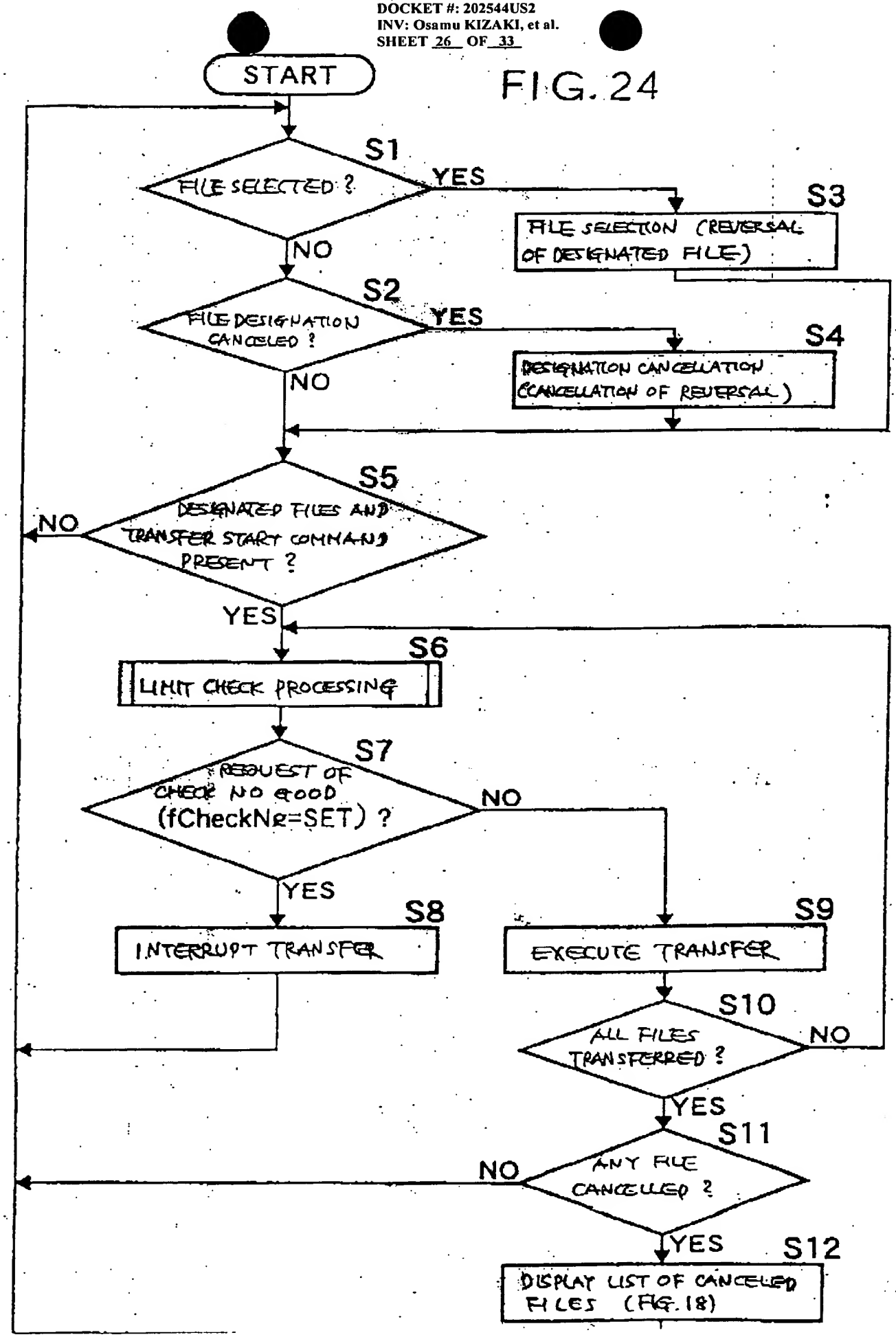
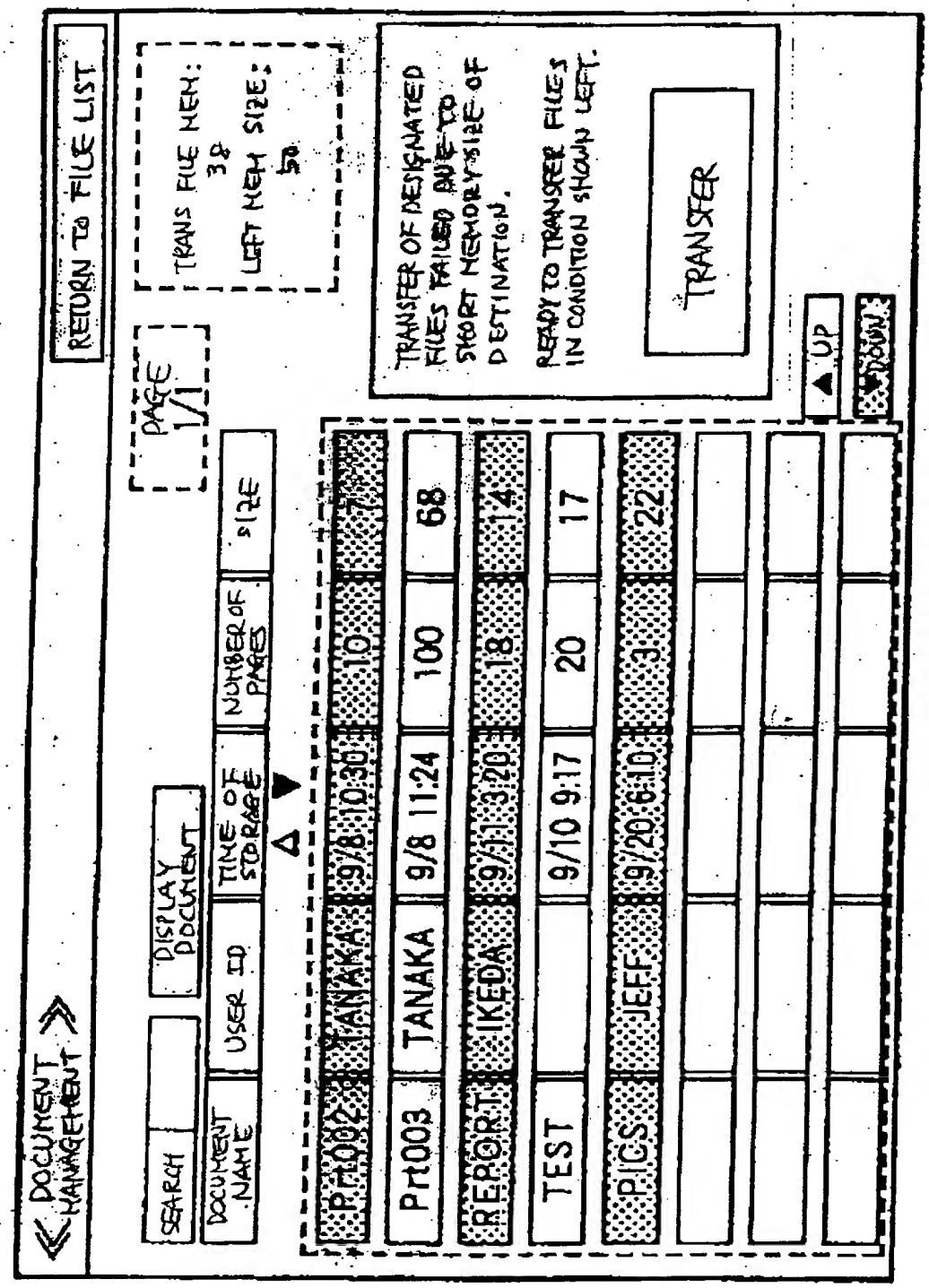

DOCUMENT MANAGEMENT
RETURN TO FILE LIST
SEARCH
DISPLAY DOCUMENT
DOCUMENT NAME
USER ID
TIME OF STORAGE
NUMBER OF PAGES
SIZE
PAGE 1/1
TRANS FILE MEM: 3P
LEFT MEM SIZE: 5P
TRANSFER OF DESIGNATED FILES FAILED DUE TO SHORT MEMORY SIZE OF DESTINATION. READY TO TRANSFER FILES IF YOU REDUCE NUMBER OF FILES.
TRANSFER
▲UP
▼DOWN
Prt002 TANAKA 9/8 10:30 10 7
Prt003 TANAKA 9/8 11:24 100 68
REPORT IKEDA 9/11 3:20 18 14
TEST 9/10 9:17 20 17
PICS JEFF 9/20 6:10 3 22

FIG. 24



EP 0 747 824 A2

FIG. 25



T06210 "04/04/60

FIG. 26

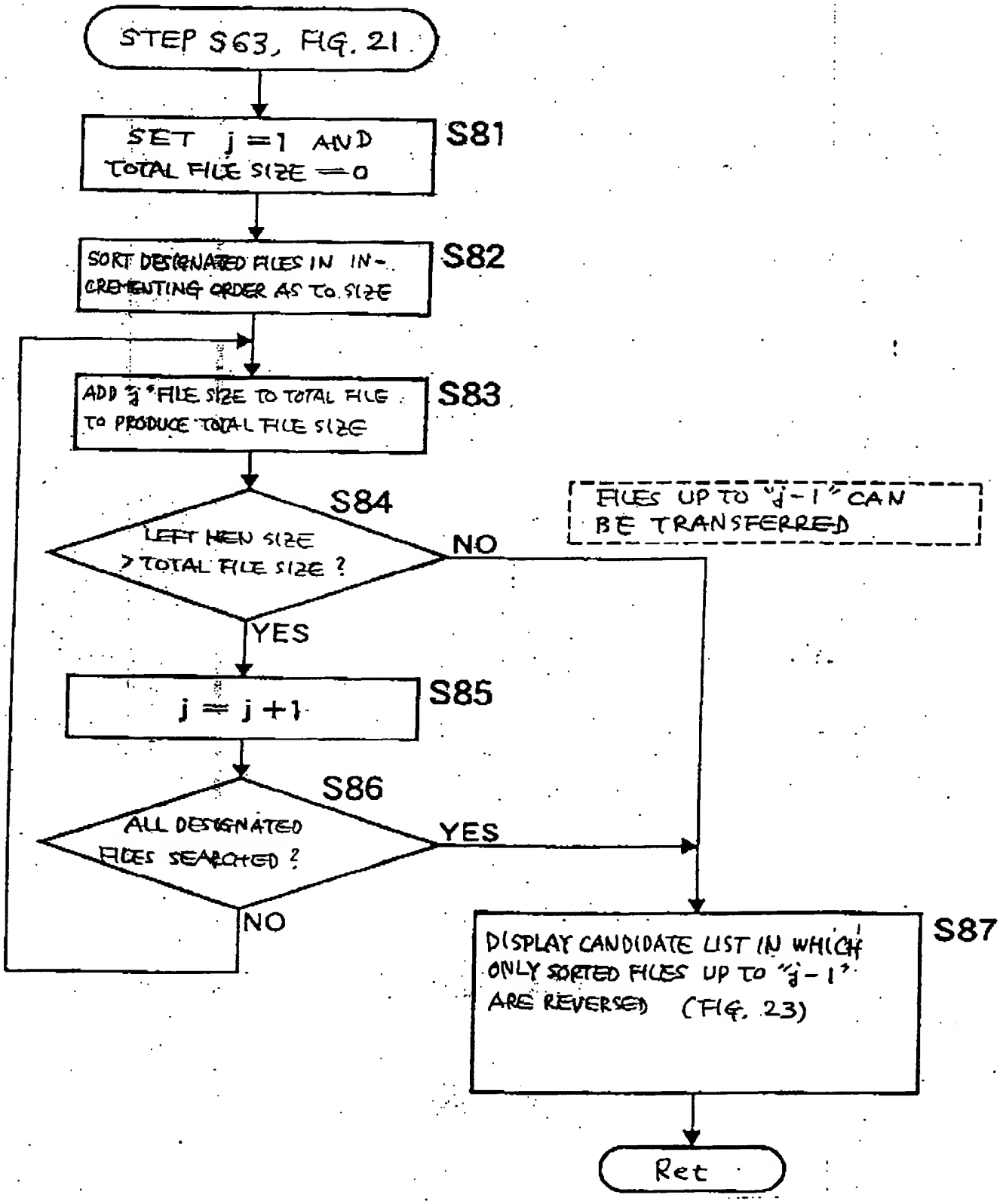
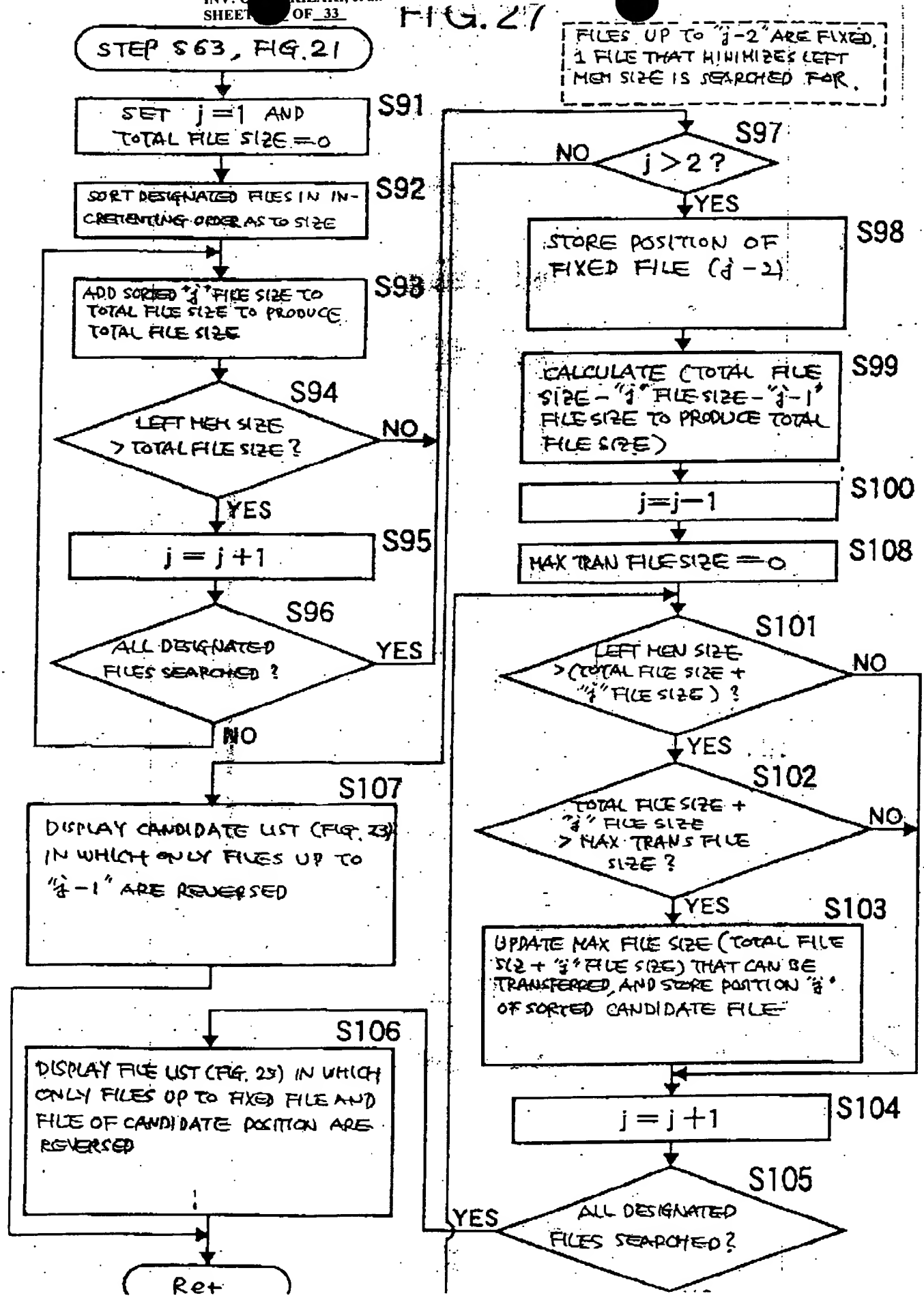

STEP S63, FIG. 21
SET j=1 AND TOTAL FILE SIZE=0
S81
SORT DESIGNATED FILES IN INCREMENTING ORDER AS TO SIZE
S82
ADD "j" FILE SIZE TO TOTAL FILE TO PRODUCE TOTAL FILE SIZE
S83
S84
LEFT MEN SIZE > TOTAL FILE SIZE ?
NO
YES
FILES UP TO "j-1" CAN BE TRANSFERRED
j = j+1
S85
S86
ALL DESIGNATED FILES SEARCHED ?
YES
NO
DISPLAY CANDIDATE LIST IN WHICH ONLY SORTED FILES UP TO "j-1" ARE REVERSED (FIG. 23)
S87
Ret

FIG. 27



FOR 2700 - 0700/2.50

FIG. 28

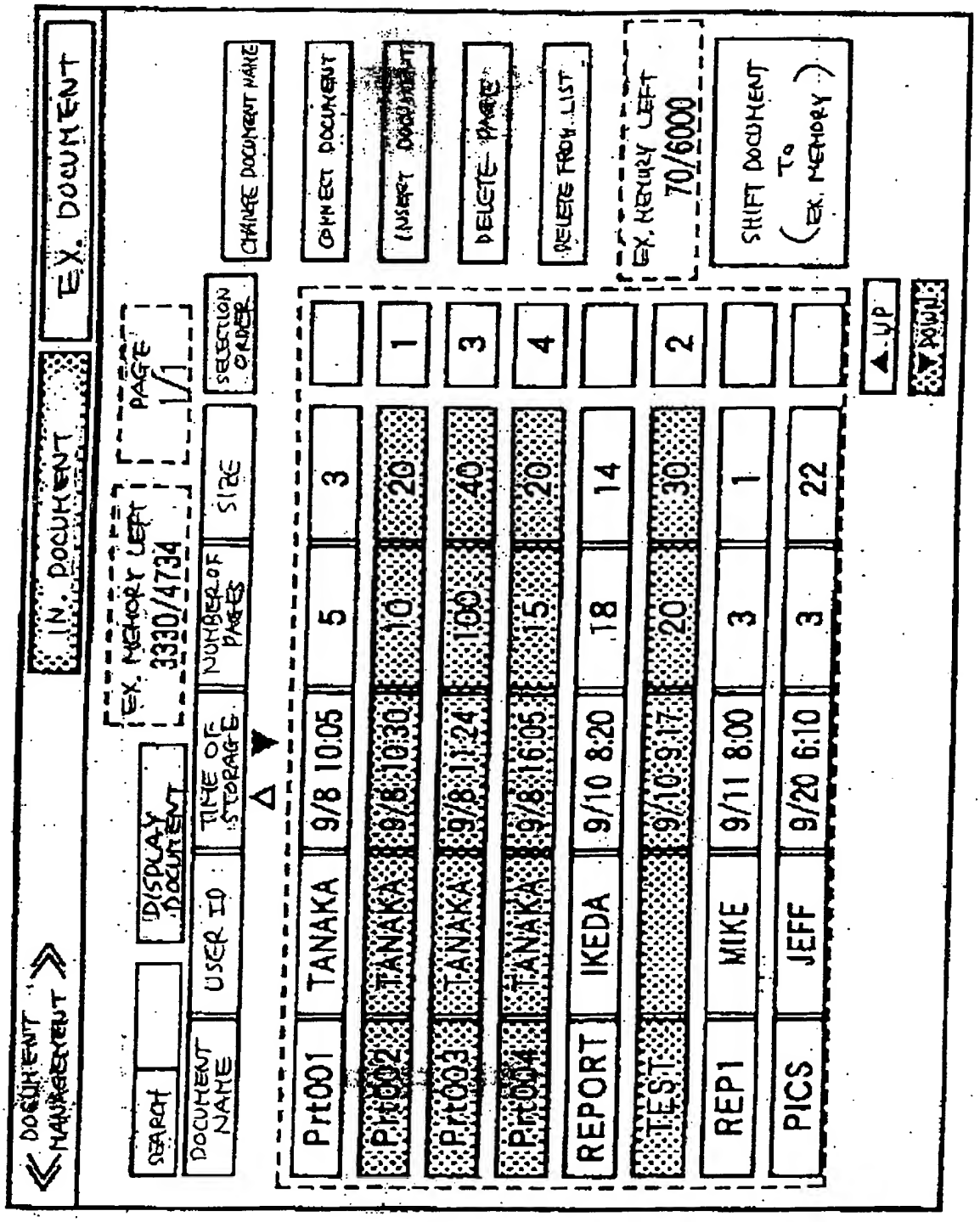
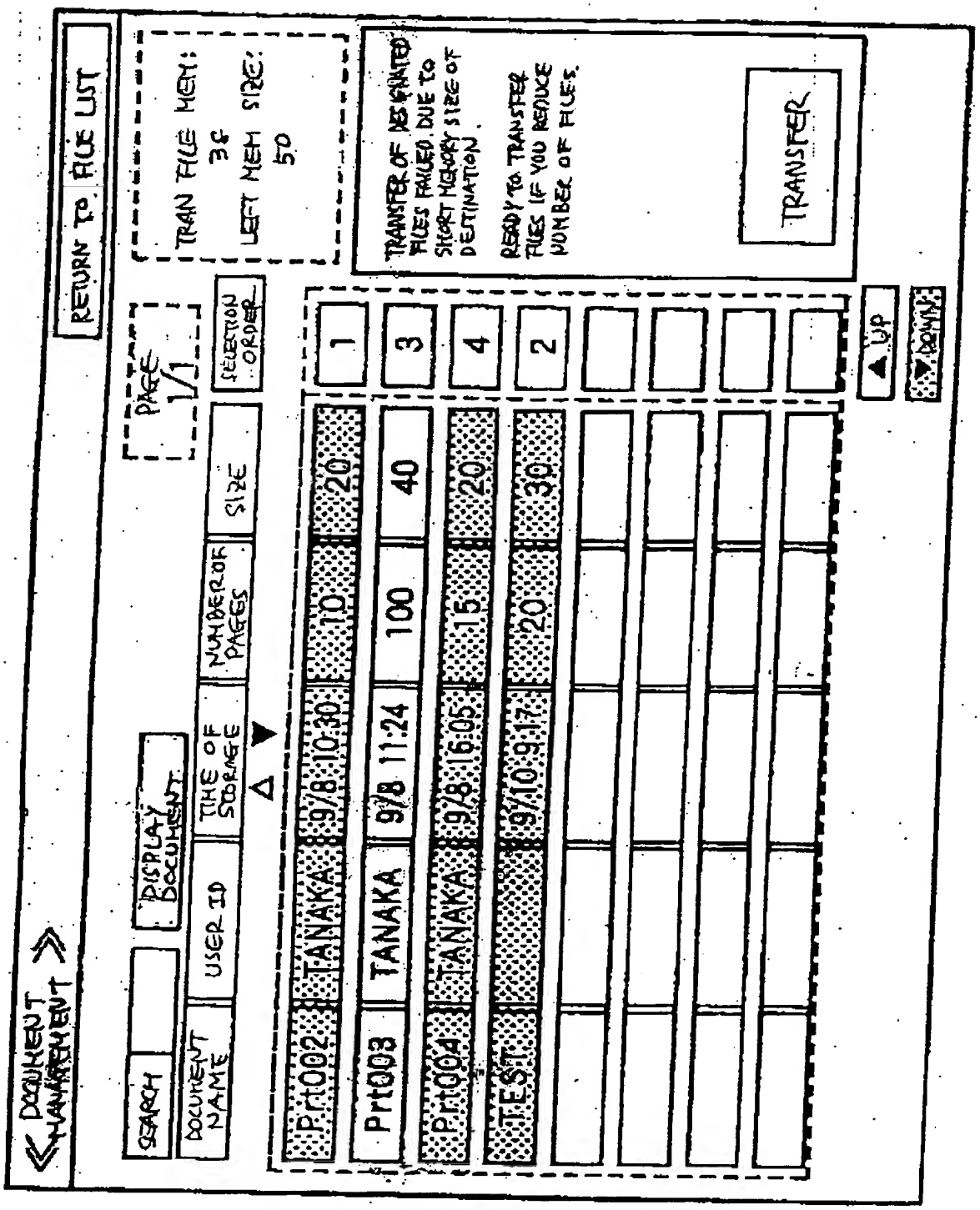

DOCUMENT MANAGEMENT
IN. DOCUMENT
EX. DOCUMENT
SEARCH
DISPLAY DOCUMENT
EX. MEMORY LEFT 3330/4734
PAGE 1/1
DOCUMENT NAME
USER ID
TIME OF STORAGE
NUMBER OF PAGES
SIZE
SELECTION ORDER
CHANGE DOCUMENT NAME
CONNECT DOCUMENT
INSERT DOCUMENT
DELETE PAGE
DELETE FROM LIST
EX. MEMORY LEFT 70/6000
SHIFT DOCUMENT TO (EX. MEMORY)
Prt001 TANAKA 9/8 10:05 5 3
Prt002 TANAKA 9/8 10:30 10 20 1
Prt003 TANAKA 9/8 11:24 100 40 3
Prt004 TANAKA 9/8 16:05 15 20 4
REPORT IKEDA 9/10 8:20 18 14
TEST 9/10 9:17 20 30 2
REP1 MIKE 9/11 8:00 3 1
PICS JEFF 9/20 6:10 3 22
▲ UP
▼ DOWN

FIG. 29



EP 0 627 690 A2

FIG. 30

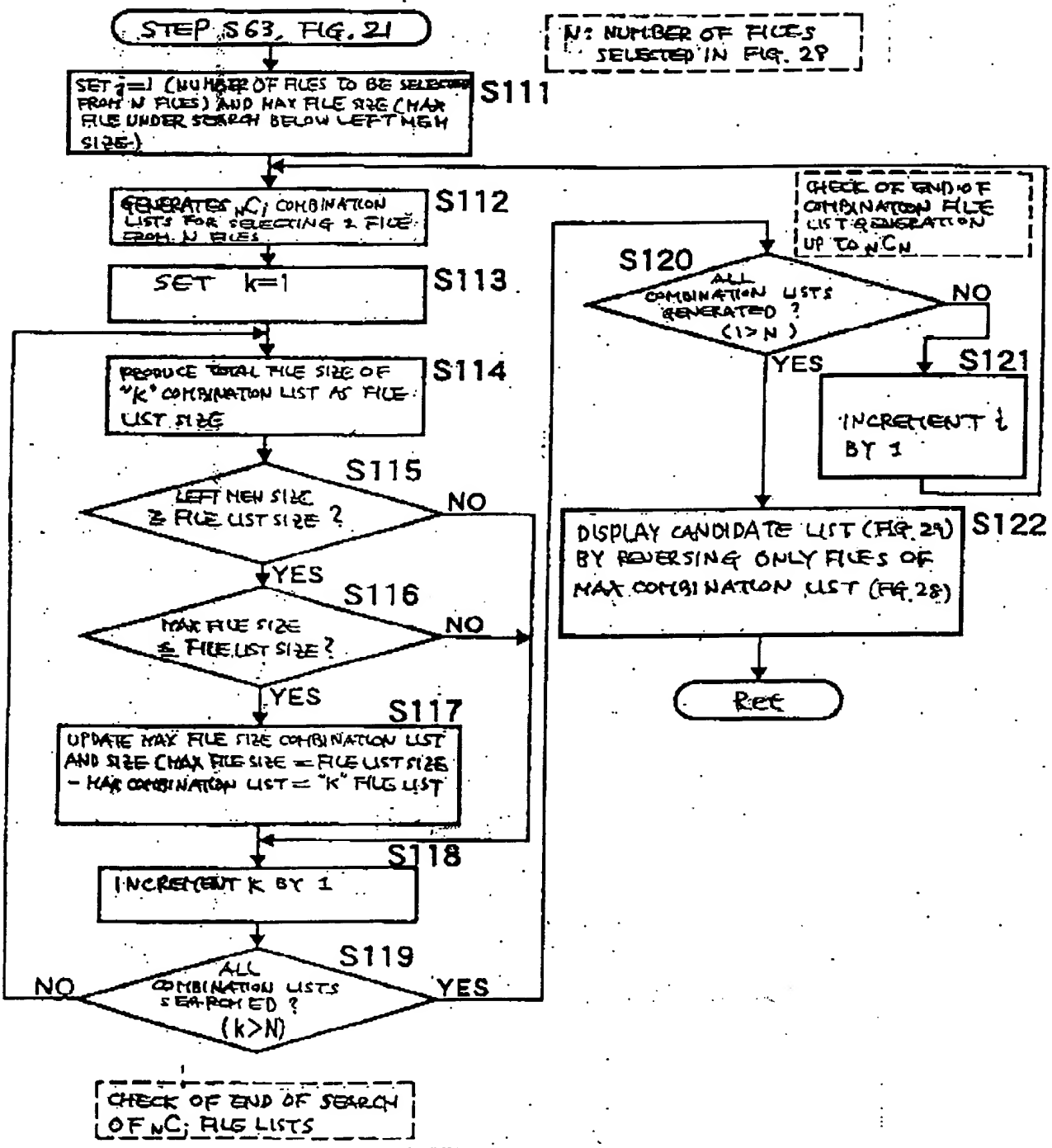
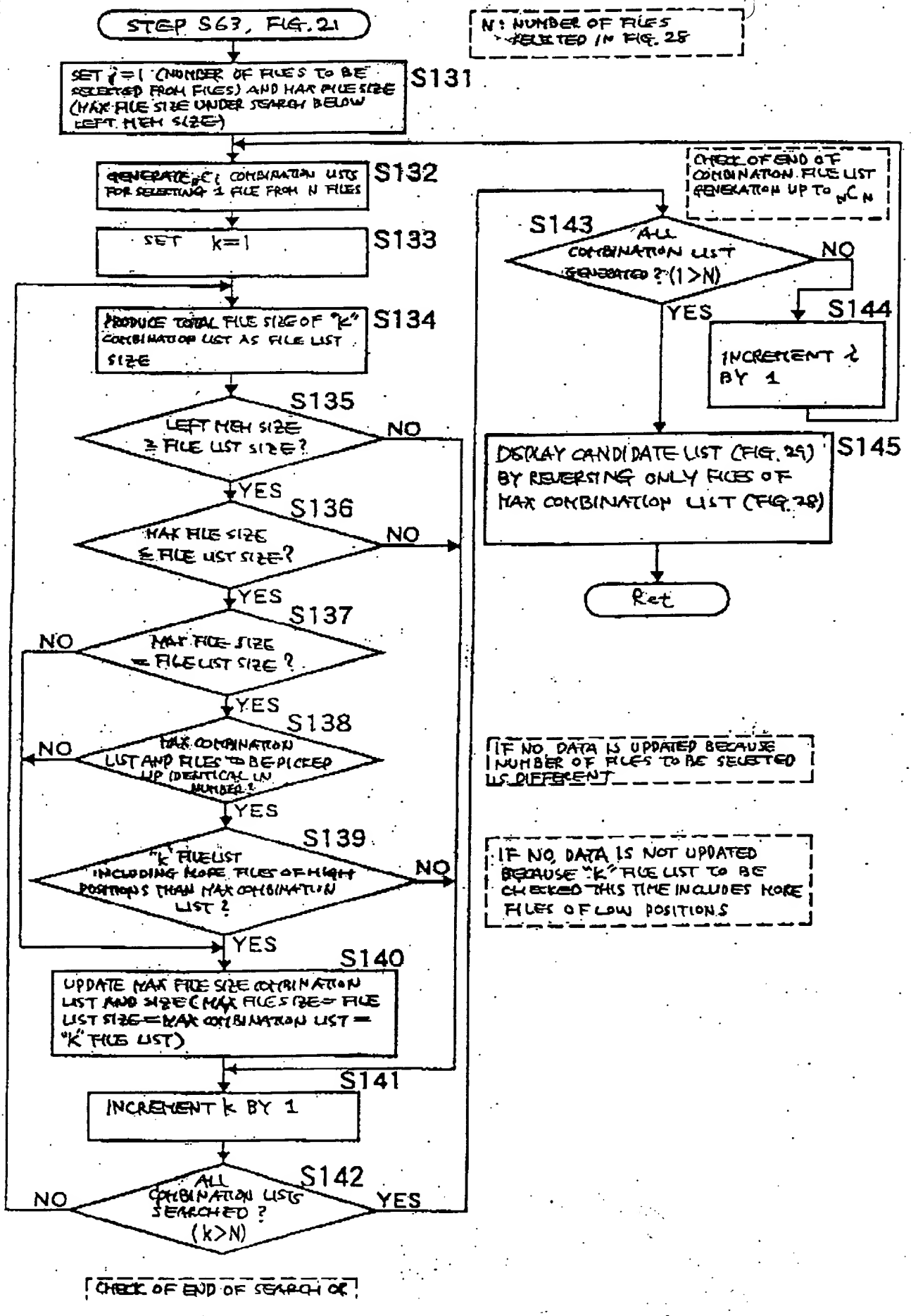

STEP S63, FIG. 21
N: NUMBER OF FILES SELECTED IN FIG. 28
SET i=1 (NUMBER OF FILES TO BE SELECTED FROM N FILES) AND MAX FILE SIZE (MAX FILE UNDER SEARCH BELOW LEFT HIGH SIZE)
S111
GENERATE nCi COMBINATION LISTS FOR SELECTING i FILE FROM N FILES
S112
SET k=1
S113
PRODUCE TOTAL FILE SIZE OF "k" COMBINATION LIST AS FILE LIST SIZE
S114
S115
LEFT NEW SIZE ≥ FILE LIST SIZE ?
NO
YES
S116
MAX FILE SIZE ≤ FILE LIST SIZE ?
NO
YES
S117
UPDATE MAX FILE SIZE COMBINATION LIST AND SIZE (MAX FILE SIZE = FILE LIST SIZE - MAX COMBINATION LIST = "k" FILE LIST
S118
INCREMENT K BY 1
S119
ALL COMBINATION LISTS SEARCHED ? (k>N)
NO
YES
CHECK OF END OF SEARCH OF nCi FILE LISTS
CHECK OF END OF COMBINATION FILE LIST GENERATION UP TO nCN
S120
ALL COMBINATION LISTS GENERATED ? (i>N)
NO
YES
S121
INCREMENT i BY 1
S122
DISPLAY CANDIDATE LIST (FIG. 29) BY REVERSING ONLY FILES OF MAX COMBINATION LIST (FIG. 28)
RET

FIG. 31



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